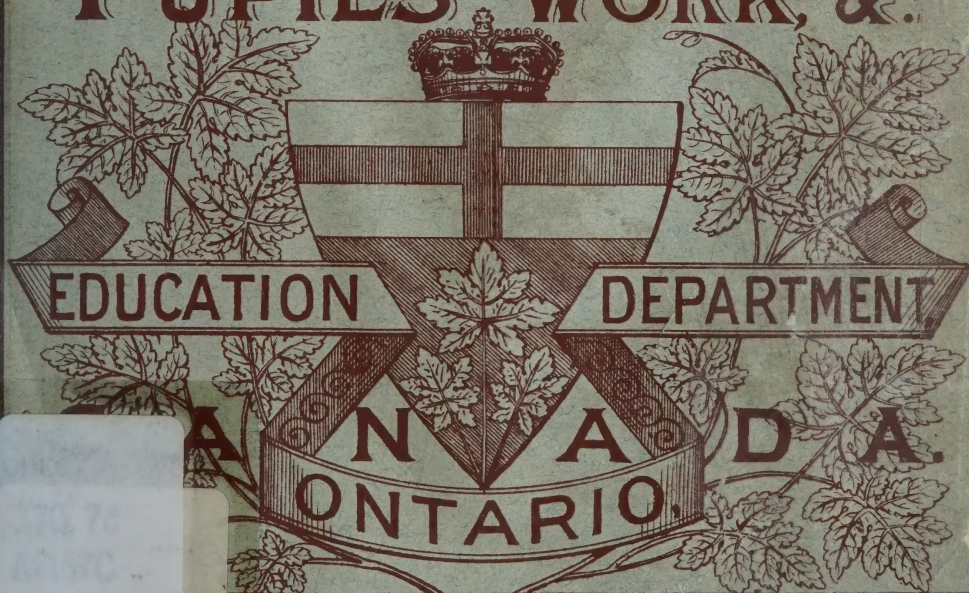


THE
COLONIAL AND INDIAN
EXHIBITION
LONDON, 1886.

CATALOGUE OF

SCHOOL
APPLIANCES,
PUPILS' WORK, &c.



PUBLISHED UNDER THE DIRECTION OF
HONOURABLE THE MINISTER OF EDUCATION

By *S. Passmore MAY, M.D., C.L.H.*
COMMISSIONER OF EDUCATION AT EXHIBITION.

Alabaster, Passmore & Sons, Lith Fann St London.



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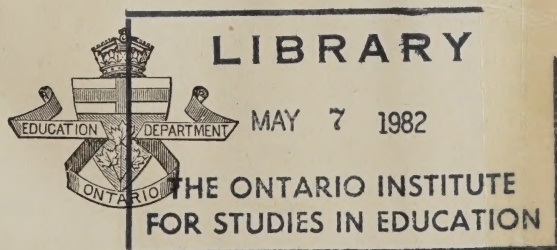
AT THE
Colonial and Indian Exhibition,

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S. PASSMORE MAY, M.D., C.L.H.,

Commissioner of Education at Exhibition.



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1886.

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CATALOGUE.

The Education Department of Ontario, under the direction of the Hon. Geo. W. Ross, LL.B., M.P.P., Minister of Education, controls the Provincial Normal and Model Schools; County Model Schools; Public, Separate and High Schools, and Collegiate Institutes; also, Upper Canada College, School of Practical Science, University College, Toronto University, Educational Museum, and Art Schools, Mechanics' Institutes, and all other Institutions receiving Government aid for Educational purposes in the Province of Ontario.

PART I.

NORMAL AND MODEL SCHOOLS, PUBLIC AND HIGH SCHOOLS, AND COLLEGIATE INSTITUTES.

CLASS 1.—HISTORICAL AND STATISTICAL.

1. Annual Reports of the Normal and Model, High and Public Schools of Ontario, from 1845 to 1885.
2. Special Educational Report, 1868 to 1876.
3. Journal of Education for Ontario, by Rev. Dr. Ryerson and J. G. Hodgins, LL.D., from 1848 to 1875.
4. Statutes and Regulations respecting Public and High Schools, 1885.
5. Regulations of the Education Department respecting Public and High Schools, 1885.
6. Revised Statutes of Ontario, 2 vols.
7. Ontario Educational Exhibit at Philadelphia in 1876, by J. G. Hodgins, LL.D., Deputy-Minister.
8. Catalogue of the Museum of the Educational Department of Ontario, by S. P. May, M.D., Superintendent.
9. Educational Trophy, consisting of 12 Statistical Charts, each 6 feet by 4 feet with large Photographs of Buildings mounted on a 12-faced prism, surmounted by a cylinder, supporting a 36-in. Globe so coloured as to show the extensive territory of Canada.

The Charts are as follow :—

10. Progress of the Public Schools of Ontario in forty years.
11. Progress of the Collegiate Institutes and High Schools in twenty-five years.
12. Statistics for 1886 of County Model Schools, Training Institutes, and Teachers' Institutes.
13. Statistics for 1886 of the Ontario School of Art, Education Department, Toronto.
14. Statistics for 1886 of the Mechanics' Institutes and Free Public Libraries in Ontario.
15. Statistics for 1886 of University College and the University of Toronto.
16. Statistics for 1886 of the School of Practical Science, Toronto.
17. Statistics of Upper Canada College, Toronto.

18. Statistics of Ontario Agricultural College, Guelph.
19. Statistics of Ontario Institution for the Education of the Blind, Brantford.
20. Statistics of Ontario Institution for the Education of the Deaf and Dumb, Belleville.
21. Map of the Province of Ontario, showing the Public Schools, Separate Schools, High Schools, Collegiate Institutes, Universities, and Colleges, Prepared under the direction of the Hon. Minister of Education for Ontario.

Grip Publishing Company, Toronto.

22. Education weekly, from July to December, 1885.

CLASS 2.—SCHOOL METHOD AND ORGANIZATION.

23. Public School Daily Register for recording the Attendance of Pupils.
24. Register of Daily Attendance, &c., in High Schools and Collegiate Institutes.
25. Honour Rolls for High and Public Schools.
26. Examination Papers for 1st and 2nd Class Provincial Certificates, and 3rd Class County Certificates, 1871-1876.
27. Examination Papers, 1st, 2nd and 3rd Class, and Intermediate, 1877-1881, and 1st Class Professional, 1881.
28. Examination Papers, 1st, 2nd and 3rd Class, and Intermediate, 1882-1885; 1st Class Professional, 1882-1885, 2nd Class Professional, 1884-1885.
29. Examination Papers, Admission to High Schools and Collegiate Institutes, 1873-1876, and Intermediate, June and December, 1876.
30. Examination Papers, Admission to High Schools and Collegiate Institutes, July 1877, July 1878. County Model Schools.
31. Robinson's Teacher's Manual of Method and Organization.
32. Baldwin's School Management.
33. Latham's School Management.
34. Gill's System of Education.
35. Browning's Introduction to the History of Educational Theories.
36. Payne's Lessons on the History of Education.
37. Quick's Essays on Educational Reformers.
38. Bain's Education as a Science.
39. Spencer's Education.
40. Fitch's Lectures on Teaching.
41. Latham's Action of Examinations.
42. Youman's Culture demanded by Modern Life.
43. Manual of Hygiene for Schools and Colleges, Education Department, Toronto.
44. Scripture Readings for High and Public Schools, authorized by the Education Department.

CLASS 3.—SCHOOL ARCHITECTURE AND PHOTOGRAPHS OF SCHOOL BUILDINGS.

45. Hints and Suggestions on School Architecture and Hygiene, with 75 Plans and Illustrations, for the use of School Trustees in Ontario, prepared under the direction of the Hon. the Minister of Education, by J. Geo. Hodgins, LL.D., Deputy-Minister.

Photographs of Schools, Colleges, &c.

Normal and Model Schools:—

46. Normal and Model Schools, Toronto.
47. Normal and Model Schools, Ottawa.

Public Schools:—

48. Brantford—Central School.
49. Do. East Ward School.

Public Schools:—

50. Brantford—North Ward School
51. Do. King's Ward School
52. Goderich—Central School.
53. Do. Public School.
54. Hamilton—Public School.
55. Do. Ward Public Sch.

PHOTOGRAPHS OF SCHOOLS—*continued.*

Public Schools :—

56. Ingersoll—Central School.
57. London—Central School.
58. Do. Hamilton Rd. School.
59. Do. Princess Aven. Sch.
60. Do. Rectory St. School
61. Morrisburg—Public School.
62. Napanee Public School.
63. Ottawa—Central School.
64. Do. Central Pub. School,
East.
65. Do. Victoria Ward Pri-
mary School.
66. Peterborough—Roman Catho-
lic Separate School for Boys
67. Toronto—Ryerson St. School.
68. Do. Wellesley St. School
69. Toronto—Dufferin St. School.
70. Do. Hope Street School.
71. Do. Victoria St. School.
72. Do. Jessie Ketchum Sch.
73. Do. Bolton Aven. School.
74. Woodstock—Central Pub. Sch.

Indian Schools :—

75. Sault Ste. Marie—Shingwauk
Home for Indian Boys
76. Do. Wananosh Home for In-
dian Girls.

Union High and Public Schools :—

77. Belleville Union High and
Public School.
78. Port Perry Union High and
Public School.

High Schools :—

79. Goderich High School.
80. Morrisburg do.
81. Stratford do.
82. Woodstock do.

Collegiate Institutes :—

83. Brantford Collegiate Inst.
84. Guelph do. do.
85. Ingersoll do. do.
86. Ottawa do. do.
87. Peterborough do. do.
88. St. Catharines do. do.
89. Toronto do. do.

CLASS 4.—SCHOOL FURNITURE AND FITTINGS.

Bennet Furnishing Company, London.

90. Style A Bennet Desk and Seat, 3 sizes.
91. Style B Bennet Desk and Seat, 3 sizes.
92. Single Back Seat for same.
93. Bennet Grammar School Locked Desk.

W. Stahlschmidt, Preston.

94. Teacher's Desk, with cupboards at each end.
95. Marvel School Desk, single size, A, with folding lid and seat, patented.
96. Single Rear Seat for same.
97. Marvel School Desks, double sizes, A, B, C, D.
98. Model School Desk, single size, No. 1, with folding lid and seat.
99. Improved Favourite School Desk, single, with stationary top and
folding seat.

Map and School Supply Company, Toronto.

(See also Map and Apparatus Departments.)

100. Numeral Frame, with Blackboard.
101. Numeral Frame on Stand.
102. Sheepskin Eraser for Blackboard.
103. Fluted Eraser for Blackboard.

CLASS 5.—KINDERGARTEN MATERIAL.

Selby & Co., Toronto.

(See also Drawing Models.)

104. Kindergarten Tables, with tops marked in inch squares.
105. Kindergarten Chairs (6 Chairs coloured to represent the primary colours).

Kindergarten Toys, &c.

- 106. Kindergarten Gift, Toys, Nos. 1 to 7.
- 107. Cubic Game, with Alphabet.
- 108. Chromographic
- 109. The Parquet Designer.
- 110. The Pattern Designer.
- 111. The Mosaic Designer.

CLASS 6.—PHYSICAL EDUCATION.

Under regulations of the Education Department, a selection of Gymnastic and Calisthenic Apparatus is recommended for use in Schools.

- 112. Maclaren's Physical Education.
- 113. Gymnasium, with the necessary Apparatus to perform the Gymnastic Exercise in Movements and Positions, Exercises of Progression, &c.
- 114. Dumb-bells.
- 115. Indian Clubs.

Mehercules Chest and Rowing Machine Manufacturing Company, Toronto.

- 116. Mehercules Chest and Rowing Machine for Colleges, Schools, and Private use.

This Gymnastic Machine combines the exercises of Rowing, Chest and overhead motions, Indian Club swinging and Dumb-bells. It is capable of affording some fifty or sixty independent athletic exercises. As a School and Home exercise Gymnasium, this newly invented machine supersedes all apparatus hitherto invented for physical culture.

CLASS 7.—TEXT-BOOKS.

Public Schools.

Text-Books authorized for use in Public Schools.

Reading and English Literature.

- 117. Ontario Readers. First Book, Part I.
- 118. Do. " " Part II.
- 119. Do. Second Book.
- 120. Do. Third Book.
- 121. Do. Fourth Book.
- 122. Do. Fifth Book.
- 123. Lewis's "How to Read."

Book-keeping.

- 124. Orrs' Dominion Accountant.
- 125. Beaty and Clare's Book-keeping.

Arithmetic.

- 126. Smith and McMurphy's Advanced Arithmetic for Canadian Schools.
- 127. Do. do. Elementary Arithmetic for Canadian Schools.
- 128. Hamblin Smith's Arithmetic.
- 129. Kirkland and Scott's Elementary Arithmetic.

Geography.

- 130. Lovell's Intermediate Geography.
- 131. Do. Advanced Geography.
- 132. Campbell's Modern School Geography and Atlas.
- 133. Calkin's World, or Introductory Geography.

Geography—continued.

- 134. Calkin's School Geography of the World.
- 135. Geikie's Physical Geography (Primer).
- 136. Page's Introductory Text-book of Physical Geography.

Grammar and Composition.

- 137. Connor's Elements of Etymology.
- 138. Morris's English Grammar "Primer."
- 139. Campbell's New Language Lessons, by Wm. Swinton.
- 140. Miller's Swinton's Language Lessons, by J. McMillan.
- 141. Morris and Bowen's English Grammar Primer and Exercises.
- 142. Abbott's How to Parse.
- 143. Mason's Outlines of English Grammar.

History.

- 144. Freeman's European History.
- 145. Edith Thompson's History of England.
- 146. Jeffer's History of Canada (Primer).
- 147. Creighton's Epoch Primer of English History.

Algebra.

- 148. Todhunter's Algebra for Beginners.
- 149. Hamblin Smith's Elementary Algebra.
- 150. Loudon's Algebra for Beginners.
- 151. Do. Elements of Algebra.

Geometry.

- 152. Pott's Elements of Geometry, with Explanation Papers.
- 153. Todhunter's Elements of Euclid.
- 154. Hamblin Smith's Elements of Geometry.

*Chemistry and Agriculture.**Optional.*

- 155. Roscoe's Chemistry Primer.
- 156. Ryerson's First Lessons in Agriculture.

*Natural Philosophy.**Optional.*

- 157. Hamblin Smith's Elementary Statics, with Appendix.
- 158. Do. do. Hydrostatics.
- 159. Magnus' Lessons in Elementary Mechanics.
- 160. Kirkland's Elementary Statics.

Elementary Physics.

- 161. Huxley's Elementary Physics (Primer).
- 162. Roscoe's Chemistry (Primer).
- 163. Stewart's Physics (Primer).

Agriculture.

- 164. Tanner's First Principles of Agriculture.

Music.

- 165. Preston's Public School Music Reader.

Drawing.

166. Canadian Drawing Course—Elementary, Freehand, Object, Constructive, and Perspective, Books 1 to 5.

Copp, Clark, & Co., *Toronto.*

167. Readers authorized by the Minister of Education.
 168. First Book, mounted on cards.
 169. Reading Lessons to accompany First Book, mounted on cards.
 170. Mercantile Graded Copy Books.

Canada School Publishing Company, *Toronto.*

(See also Music and Drawing.)

171. Coleridge's "Ancient Mariner" and Selected Minor Poems.
 172. Ayres and Armstrong's Verbalist.
 173. Do. do. Orthœpist.
 174. Swinton's Language Lessons.
 175. Williams's Composition and Practical English.
 176. Jeffer's History of Canada.
 177. Thompson's History of England.
 178. Collier's History of British Empire.
 179. Morrison's Trigonometry.
 180. Royal Canadian Readers.
 181. Beatty's Ontario Writing Course.
 182. Tufts and Preston's Public and High School Music Readers.
 183. Canadian Drawing Course, 5 books.
 184. Set Charts for Drawing Books.
 185. Set Drawing Books mounted in frames.

Frazer, T., *Owen Sound.*

186. First Lessons in Grammar.

High Schools and Collegiate Institutes.

Text-Books authorized for use in High Schools and Collegiate Institutes.

English.

187. The Fifth Reader, Canadian National Series (authorized edition).
 188. The Spelling Book, a Companion to the "Readers."
 189. Lewis's Dominion Elocutionist.
 190. Bell's Standard Elocutionist.
 191. Spalding's History of English Literature.
 192. Craik's English Literature and Language.
 193. Mason's English Grammar.
 194. Fleming's Analysis of the English Language.
 195. Angus' Hand-book of the English Tongue.
 196. Bain's Rhetoric and Composition.
 197. Chambers's Etymological English Dictionary.
 198. Morris's English Grammar Primer.
 199. Campbell's New Swinton's Language Lessons.
 200. Miller's do. do.

Ancient Languages.—Latin.

201. Arnold's First and Second Latin Books.
 202. Smith's Principia Latina, I., II., III., IV.
 203. Bryce's Series of Latin Readers.
 204. Smith's Small Grammar of the Latin Language.

Latin—continued.

- 205. Harkness's Latin Grammar.
- 206. Arnold's Latin Prose Composition.
- 207. Abbot's Latin Composition by means of the English Idiom.
- 208. Sargent and Dallin's Materials and Models for Latin Prose Composition.

Greek.

- 209. Smith's Initia Græca.
- 210. Curtius' Smaller Grammar of the Greek Language.
- 211. Farrar's Greek Syntax.
- 212. Clyde's do.
- 213. Harkness's First Greek Book.
- 214. Arnold's Greek Prose Composition.
- 215. Liddell and Scott's Greek-English Lexicon.
- 216. Jelf's Greek Grammar (for Advanced Work).

Modern Languages.—French.

- 217. De Fivas Grammaire des Grammaires.
- 218. Do. Elementary French Reader.
- 219. Hachette's First French Reader.
- 220. Contanseau's Guide to French Translation.
- 221. Haas' Introduction to the French Language.
- 222. Surenne's French Dictionary.
- 223. Contanseau's Practical Dictionary.
- 224. Collot's Conversations.
- 225. Hachette's French Dialogues.
- 226. Bue's First French Book.
- 227. Brachet's Public School Elementary French Grammar.

German.

- 228. Ahn's German Grammar.
- 229. Adler's do. Reader.
- 230. Otto's do. Grammar.
- 231. Hachette's German Dialogues.

Mathematics.

- 232. Smith and McMurchy's Advanced Arithmetic for Canadian Schools.
- 233. Hamblin Smith's Arithmetic.
- 234. National Mensuration.
- 235. Smith and McMurchy's Elementary Arithmetic for Canadian Schools.
- 236. Loudon's Elements of Algebra.
- 237. Todhunter's do.
- 238. Hamblin Smith's Elements of Algebra.
- 239. Gross's Algebra (for advanced Pupils).
- 240. Colenso's do. do.
- 241. Elements of Geometry (See Public School List).
- 242. Kirkland's Statics.
- 243. Hamblin Smith's Elementary Statics.
- 244. Do. do. Hydrostatics.
- 245. Magnus' Lessons in Elementary Mechanics.
- 246. Twisden's Principles of Mechanics.
- 247. Wormell's Principles of Dynamics.
- 248. Newth's Elementary Course of Natural Philosophy.

History, Geography, and Antiquities.

- 249. Longman's Epochs of Ancient History.
- 250. Do. do. English do.

History, Geography, and Antiquities—continued.

251. Edith Thompson's English History.
252. Green's History of the English People.
253. Smith's Smaller History of Greece.
254. Schmitz's History of Greece.
255. Do. Smaller History of Rome.
256. Do. History of Rome.
257. Cox's History of Greece.
258. Liddell's History of Rome.
259. Jeffer's Primer of Canadian History.
260. Pillan's First Steps in Classical Geography.
261. Smith's Classical Dictionary of Greek and Roman Antiquities.
262. Do. do. Biography, Mythology, and Geography.
263. Schmitz's Ancient Atlas.
264. Butler's Junior Ancient Atlas.
265. Do. Public School Atlas of Modern Geography.

Physical Science.

266. Gray's How Plants Grow.
267. Spotton's Elements of Structural Botany, with special reference to the study of Canadian Plants.
268. Oliver's Elementary Botany.
269. Roscoe's Chemistry (Science Primer).
270. Do. Lessons in Elementary Chemistry.
271. Howard's Practical Chemistry.
272. Tilden's Introduction to Chemical Philosophy.
273. Thorp and Muir's Qualitative Chemical Analysis.
274. Miller's Inorganic Chemistry.
275. Balfour Stewart's Lessons in Elementary Physics.
276. Nicholson's Outlines of Natural History.
277. Foster's Physiology (Science Primers).
278. Huxley's Lessons in Elementary Physiology.
279. Geikie's Physical Geography (Science Primer).
280. Do. Geology.
281. Page's Introductory Text-book on Physical Geography.

Miscellaneous.

282. Ryerson's First Lessons in Agriculture.
283. Tanner's First Principles of Agriculture.
284. Do. Elementary Lessons in the Science of Agricultural Practice.
285. Buckton's Health in the House.
286. Beatty and Clare's Book-keeping.
287. Orrs' Dominion Accountant.
288. Spencer's Modern Gymnast.
289. Hullah's Manual of Vocal Music.
290. Smith's (Walter) Drawing Series and Manuals.

NOTE.—All books authorized for use in the Public Schools are likewise authorized for use in High Schools.

CLASS 8.—READING CHARTS, &c.

Copp, Clark, & Co., *Toronto*.

291. Reading Lessons to accompany authorized series of Reading Books.
292. Calkin's Phonetic Charts for Self-training in the Sounds of Language.

Caleb P. Simpson, Barrister, Leamington, Ontario.

Set of 11 Tabulated Phonetic Alphabet Charts.

- | | | |
|------|---------------|---|
| 293. | Chart No. 1.— | The Vowel and Consonant Signs arranged. |
| 294. | 2.— | Ditto ditto. |
| 295. | 3.— | Vowel Signs with Key Words and Pictures. |
| 296. | 4.— | Consonant Signs with Key Words and Pictures. |
| 297. | 5.— | Vowel Key and Equivalents. |
| 298. | 6.— | Consonant Key and Equivalents. |
| 299. | 7.— | Printed Sample of Phonotypy. |
| 300. | 8.— | Printed Alphabet with Script and Phonographic characters. |
| 301. | 9.— | Ditto ditto. |
| 302. | 10.— | Samples of Phonotypy. |
| 303. | 11.— | Ditto ditto. |

CLASS 9.—DRAWING MODELS, &c.

304. Set of Drawing Models. (Department of Science and Art.)
 305. Set of Geometrical Drawing Models.
 306. Model of a Bridge.
 307. Do. do. Door and Steps.
 308. Do. do. Step Ladder.
 309. Do. do. Gate.
 310. Do. do. Gate.
 311. Do. do. Well.
 312. Do. do. House.
 313. Models of Fruit, beautifully coloured from Nature.
 314. Terra-cotta Models of Fruit, Leaves, &c.
 315. Bail's Drawing Charts (set of 19).
 316. Diagram of Colour.

Selby & Co., Toronto.

(See also School Furniture.)

317. Set of Primary Drawing Models.
 318. Do. Canadian Drawing Models.
 319. Do. Geometrical Figures.

CLASS 10.—MUSIC.

R. S. Williams & Son, Toronto.

320. Public School Cabinet Organ, solid block walnut case, three and quarter octaves, having one set of reeds throughout, with double bellows, two blowing pedals, and knee swell.

This instrument is sufficiently powerful for out-door exercises, or for any ordinary schoolroom, and is so light that it can be carried from room to room by a child ten years of age.

321. Public and High School Piano, walnut oil finished case, carved trusses, seven octaves trichord, overstrung, best action, iron plate; height 4-ft. 1½-in., width 4-ft. 9-in.

Tone and quality quite equal to instruments sold at four times the price.

Canada School Publishing Company, Toronto.

(See also Text-Books and Drawing.)

322. Tufts and Preston's Public School Music Reader.
 323. Tufts and Preston's High School Music Reader.
 324. Normal Music Course, first series (20 large charts printed on both sides).

CLASS 11.—GEOGRAPHY AND ASTRONOMY.

*Topographical Illustrations.**Terrestrial Globes :—*

- | | | |
|------|--------------------------------------|------------------------|
| 325. | 30-inch Terrestrial Globe. | |
| 326. | 18-inch do. | bronze pedestal stand. |
| 327. | 12-inch do. | bronze frame. |
| 328. | 6-inch do. | brass frame. |
| 329. | 5-inch Terrestrial Hemisphere Globe. | |
| 330. | 3-inch do. | do. |

Raised and Physical Globes :—

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|------|-------------------------|
| 331. | 12-inch Physical Globe. |
| 332. | 15-inch Raised Globe. |
| 333. | 18-inch do. |

These globes show the elevation of mountains, depressions for rivers, &c., and are far preferable to the ordinary globes for giving instruction on the physical formation of the different countries of the World.

Maps, &c. :—

- | | | | |
|------|---------------------|------|-------------------------------|
| 334. | Johnston's England. | 339. | Nelson's British America. |
| 335. | " Ireland. | 340. | " Palestine. |
| 336. | " Scotland. | 341. | " Lands of the Bible. |
| 337. | " British Isles. | 342. | Departmental Map of Palestine |
| 338. | " Australia. | | and Bible Lands. |

Raised Maps :—

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|------|----------------|------|-----------------|
| 343. | North America. | 345. | Map of Italy. |
| 344. | Map of Europe. | 346. | Greciæ Antiqua. |

Map and School Supply Company, Toronto.

School Maps (see also Apparatus and School Furniture Departments)—

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|------|-----------------------------|------|------------------------|
| 347. | Europe. | 351. | America. |
| 348. | Asia. | 352. | Dominion of Canada and |
| 349. | Africa. | | Ontario. |
| 350. | Map Case containing 5 Maps. | | |

Canada Publishing Company, Toronto.

353. Hughes' Railway Map of Ontario.

*Astronomical Illustrations.**Celestial Globes, Orreries, &c. :—*

- | | | | |
|------|---|------|--------------------------|
| 354. | 18-inch Celestial Globe, high
bronze pedestal stand. | 360. | Planetarium High Stand. |
| 355. | 12-inch Celestial Globe, low
bronze frame. | 361. | Do. Low Stand. |
| 356. | Solar Telluric Globe. | 362. | Brass-gear'd Tellurium. |
| 357. | Juvet's Time Globe. | 363. | The Heliotellus. |
| 358. | Ginn's 6-inch Astronomical
Globe. | 364. | The Lunatellus. |
| 359. | Swain's Planetarium. | 365. | Tide Dial. |
| | | 366. | Bailey's Astral Lantern. |
| | | 367. | Astronomical Lantern. |

Selby & Co., Toronto.

368. Newtonian or Astronomical Globe.

Astronomical and Physical Maps and Charts :—

- 369. Johnston's Solar System.
- 370. Do. Astronomical Diagrams.
- 371. Astronomical Charts (set of 16).
- 372. Drew's Astronomical Charts (set of 12).
- 373. Reynold's Astronomical Geography.
- 374. Do. Chart, Distribution of Rain.
- 375. Do. Principal Rivers in the World.
- 376. Guizot's Mural Map of North America.

CLASS 12.—CHRONOLOGY.

- 377. Chronological Chart of Ancient History.
- 378. Genealogical and Chronological Chart of the History of England.
- 379. Genealogical Chart of the Sovereigns of England, showing their respective titles to the Crown.
- 380. Historical Chart, showing the rise, progress, and decline of Commercial Nations, 1506 B.C. to A.D. 1870.
- 381. Merritt's Historic Tree of British North America.
- 382. Nasmith's Chronometrical Chart of the History of England.
- 383. Genealogical Tree of the Royal Family of Great Britain.

CLASS 13.—ETHNOGRAPHY.

Portrait Busts of Distinguished Canadians (from the Educational Museum).

- 384. Marquis of Lorne, Governor-General of Canada from 1878 to 1882.
- 385. His Honour John Beverley Robinson, Lieutenant-Governor of Ontario, born 1820.
- 386. Right Hon. Sir John A. Macdonald, G.C.B., Premier of Dominion of Canada, born 1816.
- 387. Hon. Oliver Mowat, Q.C., Premier of Ontario, born 1820.
- 388. Hon. George Brown, Senator, born 1818, died 1880.
- 389. Sir Francis Hincks, K.C.M.G., born 1807, died 1885.
- 390. Hon. T. D'Arcy McGee, M.P., born 1825, died 1868.
- 391. Rev. Edgerton Ryerson, D.D., LL.D., Chief Superintendent of Education, born 1803, died 1880.
- 392. Hon. Adam Crooks, first Minister of Education for Ontario, born 1827, died 1886.
- 393. Right Reverend John Strachan, D.D., LL.D., first Bishop of Toronto, born 1778, died 1867.

Portraits of Indians (set of 58 colored) :—

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|---|---|
| <ul style="list-style-type: none"> 394. Ah-you-waighs, Chief of the six Nations. 395. A-mis-quam, a Winnebago Brave. 396. A-mis-quew, a Menominie Warrior. 397. Ap-pa-noo-se, a Saukie Chief. 398. As-se-o-la, a Seminole Leader. 399. Caa-tou-see, an Ojibway. 400. Chippeway Squaw and Child. 401. Chippeway Squaw and Child. 402. Chippeway Widow. 403. Cho-no-ca-pe, an Ottoo Chief. 404. Chon-man-i-case, an Ottoo Half-Chief. 405. Esh-ta-hum-leah, a Sioux Chief. 406. Ki-on-twog-ky, a Seneca Chief. | <ul style="list-style-type: none"> 407. Le Soldat du Chene, an Osaga Chief. 408. McIntosh, a Creek Chief. 409. Ma-has-kah, an Ioway Chief. 410. Ma-ka-tai-me-she-kia-kiah, a Saukie Chief. 411. Me-ta-Koo-se-ga, a Chippewa Warrior. 412. Mi-ca-no-py, a Seminole Chief. 413. Mo-hon-go, an Osaga Woman. 414. Mon-chon-sia, a Kansas Chief. 415. Mon-ka-ush-ka, a Sioux Chief. 416. Ne-o-mon-ne, an Ioway Chief. 417. Ne-sou-a-quoit, a Fox Chief. 418. Not-chi-mi-ne, an Ioway Chief. 419. No-way-ke-sug-ga, an Otoo Chief. |
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Portraits of Indians—continued.

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|--|---|
| 420. O-kee-maa-kee-quid, a Chippewa Chief. | 435. Ridge Major, a Cherokee Chief. |
| 421. On-ge-wae, a Chippewa Chief. | 436. Ross John, a Cherokee Chief. |
| 422. Ong-pa-ton-ga, Chief of the Omahas. | 437. Shau-hau-na-po-tin-ia, an Ioway Chief. |
| 423. Pa-she-pa-haw, a Saux Chief. | 438. Shin-ga-la W'Ossin, Image Stone. |
| 424. Pay-ta-koo-tha, a Shawanee Warrior. | 439. Tah-ro-hon, an Ioway Warrior. |
| 425. Pe-ah-mus-ka, a Musquaquee Chief. | 440. Tai-o-mah, a Musquaquee Brave. |
| 426. Pee-che-kin, a Chippewa Chief. | 441. Tha-yen-de-ne-gea, Captain of the six Nations. |
| 427. Pes-ke-le-cha-co, a Pawnee Chief. | 442. Tish-co-han, a Deleware Chief. |
| 428. Pet-a-le-shar-ro, a Pawnee Brave. | 443. To-ka-con, a Sioux Chief. |
| 429. Po-ca-hon-tas. | 444. Wa-a-top-e-not. |
| 430. Pow-a-sheek, a Fox Chief. | 445. Wa-kawn-ha-ka, a Winnebago Chief. |
| 431. Push-ma-ta-ha, a Chaetan Warrior. | 446. Wa-ke-chai, a Saukie Chief. |
| 432. Qua-ta-wa-pea, a Shawanee Chief. | 447. Wa-na-ta, Grand Chief of the Sioux. |
| 433. Red Jacket, a Seneca War Chief. | 448. Wa-pel-la, Chief of the Musquaquees. |
| 434. Ridge John, a Cherokee. | 449. Wat-che-mon-ne, an Ioway Chief. |
| | 450. Wesh-cubb, a Chippewa Chief. |
| | 451. Yo-ho-lo-mic-co, a Creek Chief. |

CLASS 14.—ANATOMY AND PHYSIOLOGY.

Models:—

452. Manakin—a model of the Human Body, showing both external and internal structure.
453. Thorax, showing organs of circulation, respiration, &c.
454. Head and Neck, showing the Muscles.
455. Head and Neck, showing Nerves, Veins, &c.
456. Head, showing Brain.
457. Brain, upper surface.
458. Brain, vertical section, showing blood-clot.
459. Brain, vertical section of Cerebellum.
460. Brain; its base.
461. Ear, enlarged, showing its structure.
462. Lower Jaw, enlarged, showing teeth, nerves, arteries, &c.
463. Skin, enlarged, showing epidermis, perspiratory glands, arteries, nerves, &c.
464. Heart, enlarged and movable, showing valves, &c.
465. Tongue and Epiglottis.
466. Larynx and part of trachea, front.
467. Larynx and part of trachea, back.
468. Bones of Foot.
469. Bones of Hand.
470. Bones of Elbow Joint.
471. Bones of Shoulder Joint.
472. Bones of Knee Joint.
473. Bones of Hip Joint.

Anatomical and Physiological Charts:—

474. Fiedler's Anatomical Charts (set of 4).
475. Marshall's Physiological Diagrams (set of 9).
476. Johnston's Anatomical and Physiological Charts (set of 2).

CLASS 15.—ZOOLOGY.

Audubon's Animals of North America (chiefly of the natural size), beautifully coloured from nature, with common and technical names.

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|------------------------------------|-----------------------------------|
| 477. American Badger. | 537. Leconte's Pine Mouse. |
| 478. Do. Beaver. | 538. Leopard Spermophile. |
| 479. Do. Black Wolf. | 539. Lewis's Marmot. |
| 480. Do. White Wolf. | 540. Little Harvest Mouse. |
| 481. Do. Buffalo. | 541. Little-Chief Hare. |
| 482. Do. Buffalo. | 542. Long-haired Squirrel. |
| 483. Do. Elk. | 543. Long-tailed Deer. |
| 484. Do. Black or Silver Fox. | 544. Marmot Squirrel. |
| 485. Do. Cross Fox. | 545. Marmot Woodchuck and |
| 486. Do. Common Deer. | Ground Hog. |
| 487. Do. Red Fox. | 546. Marsh Hare. |
| 488. Do. Shrew Mole. | 547. Meadow Mouse. |
| 489. Do. Skunk. | 548. Migratory Squirrel. |
| 490. Do. Little Brown Weasel. | 549. Mink. |
| 491. Do. Wild Cat. | 550. Missouri Mouse. |
| 492. Annulated Marmot Squirrel. | 551. Mole-shaped Pouched Rat. |
| 493. Bachman's Hare. | 552. Moose Deer. |
| 494. Black-footed Ferret. | 553. Musk Ox. |
| 495. Black Rat. | 554. Muskrats (old and young). |
| 496. Black Squirrel. | 555. Northern Hare (Summer). |
| 497. Black-tailed Deer. | 556. Do. (Winter). |
| 498. Black-tailed Hare. | 557. Norway Rat. |
| 499. Brewer's Shrew Mole. | 558. Nuttall's Hare. |
| 500. Bridled Weasel. | 559. Ocelot or Leopard Cat. |
| 501. Californian Hare. | 560. Orange-bellied Squirrel. |
| 502. Do. Marmot Squirrel. | 561. Orange-coloured Mouse. |
| 503. Canada Lynx. | 562. Oregon Flying Squirrel. |
| 504. Do. Otter. | 563. Pennant's Marten. |
| 505. Do. Porcupine. | 564. Polar Bear. |
| 506. Do. Pouched Rat. | 565. Do. Hare. |
| 507. Carolina Grey Squirrel. | 566. Prairie Dogs. |
| 508. Do. Shrew. | 567. Do. Wolf. |
| 509. Cat Squirrel. | 568. Prong-horned Antelope. |
| 510. Chipping Squirrel. | 569. Raccoon. |
| 511. Collared Peccary. | 570. Red-bellied Squirrel. |
| 512. Collies Squirrel. | 571. Red-tailed Squirrel. |
| 513. Columbia Pouched Deer. | 572. Red Texan Wolf. |
| 514. Columbian Black-tailed Deer. | 573. Ring-tailed Bossaris. |
| 515. Do. Squirrel. | 574. Richardson's Spermophile. |
| 516. Common Mouse. | 575. Rocky-Mountain Hare. |
| 517. Do. Star-nose Mole. | 576. Do. Neotoma. |
| 518. Cotton Rat. | 577. Do. Sheep. |
| 519. Douglas's Spermophile. | 578. Say's Least Shrew. |
| 520. Do. Squirrel. | 579. Do. Marmot Squirrel. |
| 521. Downy Squirrel. | 580. Squirrel. |
| 522. Dusky Squirrel. | 581. Soft-haired Squirrel. |
| 523. Florida Rat. | 582. Swamp Hare. |
| 524. Flying Squirrel. | 583. Swift Fox. |
| 525. Four-striped Ground Squirrel. | 584. Texan Lynx. |
| 526. Fox Squirrel. | 585. Do. Skunk. |
| 527. Franklin's Marmot Squirrel. | 586. The Cougar. |
| 528. Grey Fox. | 587. The Jaguar. |
| 529. Do. Rabbit. | 588. Tawny Lemming and Black's |
| 530. Ground Squirrel. | Lemming. |
| 531. Hare Squirrel. | 589. Virginian Opossum. |
| 532. Hoary Marmot. | 590. White-footed Mouse. |
| 533. Hudson Bay Lemming. | 591. White Weasel. |
| 534. Do. Squirrels. | 592. Wolverine. |
| 535. Jumping Mouse. | 593. Wormwood Hare. |
| 536. Large-tailed Skunk. | 594. Yellow-cheeked Meadow Mouse. |

Zoological Diagrams :—

- 595. Patterson's Zoological Diagrams (set of 10).
- 596. Johnston's Illustrations of Natural History (set of 5).
- 597. Redfield's General View of the Animal Kingdom.
- 598. Simonson's Circular Zoological Chart.
- 599. Hawkins' Extinct Animals (set of 5).
- 600. C.K.S. Comparative Size of Animals.

Normal and Model Schools, Ottawa.

- 601. Collection of Corals.

CLASS 16.—BOTANY.

Botanical Charts :—

- 602. Henslow's Botanical Charts (set of 9 Charts, beautifully coloured, containing several hundreds of diagrams and illustrations).
- 603. Departmental Set of Botanical Plates (20 Charts illustrating Seeds, Roots, Plants, &c.).
- 604. Johnston's Botanical Charts (set of 5, beautifully coloured).

Vegetable Kingdom :—

- 605. Flowering Plants or Phanerogamia, and Flowerless Plants or Cryptogamia, (set of 70).
The Plants are mounted on large sheets of cardboard, which have also printed description and coloured drawings.
- 606. Apparatus for Collecting Plants.

Set of 45 Coloured Botanical Plates. Order Orchidaceæ. Orchis Family.

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|---------------------------------------|---|
| 607. <i>Aerides quinquevulnera</i> . | 630. <i>Maxillaria eburnea</i> . |
| 608. <i>Burlingtonia venusta</i> . | 631. <i>Disa grandiflora</i> . |
| 609. Do. <i>rigida</i> . | 632. <i>Epidendrum phœniceum</i> . |
| 610. <i>Brassia macrostachya</i> . | 633. Do. <i>vitellinum</i> . |
| 611. <i>Catasetum laminatum</i> . | 634. <i>Galeandra devoniana</i> . |
| 612. Do. <i>longifolium</i> . | 635. <i>Huntleya violacea</i> . |
| 613. Do. <i>saccatum</i> . | 636. <i>Leptotes serrulata</i> . |
| 614. <i>Calanthe brevicornu</i> . | 637. <i>Loelia cinnabarina</i> . |
| 615. Do. <i>plantaginea</i> . | 638. <i>Miltonia clowesii</i> . |
| 616. Do. <i>versicolor</i> . | 639. Do. <i>candida</i> . |
| 617. <i>Camarotis purpurea</i> . | 640. <i>Oncidium Barkeri</i> . |
| 618. <i>Cattleya superba</i> . | 641. Do. <i>pectorale</i> . |
| 619. Do. <i>bicolor</i> . | 642. Do. <i>sanguineum</i> . |
| 620. <i>Sophronitis grandiflora</i> . | 643. <i>Maxillaria brocklehurstiana</i> . |
| 621. <i>C. Drymoda picta</i> . | 644. <i>Orchis foliosa</i> . |
| 622. <i>Cymbidium giganteum</i> . | 645. <i>Phaino bicolor</i> . |
| 623. <i>Cyrtorchilus stellatum</i> . | 646. <i>Stanhopea wardii</i> . |
| 624. Do. <i>maculatum</i> . | 647. Do. <i>devoniensis</i> . |
| 625. Do. <i>punctatum</i> . | 648. <i>Schomburgkia crispa</i> . |
| 626. <i>Cynoches maculatum</i> . | 649. Do. <i>marginata</i> . |
| 627. <i>Dendrobium macrophyllum</i> . | 650. <i>Sobralia liliastrum</i> . |
| 628. Do. <i>nobile</i> . | 651. <i>Saccolabium compressum</i> . |
| 629. <i>Diothonea imbricata</i> . | 652. Do. <i>blumei</i> . |

Models of Flowers.

- 653. Grass Family—Common Meadow Grass.
- 654. Gentian Family—Swallow-wort Gentian.
- 655. Figwort Family—Purple Foxglove.
- 656. Rose Family—Garden Red Cherry.
- 657. Orchis Family—Military Orchis.
- 658. Evening Primrose Family—Common Evening Primrose.

Models of Flowers—continued.

- 659. Pink Family—Clove Pink.
- 660. Convolvulus Family—Wild Morning Glory.
- 661. Iris Family—Fleur-de-luce.
- 662. Colchicum Family—Common Colchicum.
- 663. Sedge Family—Sedge (male and female).
- 664. Violet Family—Pansy or Heart's-ease.
- 665. Spurge Family—Cypress Spurge.
- 666. Amaryllis Family—Snowdrop.
- 667. Lily Family—Turk's Cap Lily.
- 668. Poppy Family—Prickly Poppy.
- 669. Composite Family—Common Mayweed.
- 670. Willow Family—White Willow (male and female).
- 671. Crowfoot Family—Monkshood.
- 672. Mallow Family—High Mallow.
- 673. Crowfoot Family—Tall Buttercup.
- 674. Mustard Family—Cabbage.
- 675. Pulse Family—Ononis hircina.
- 676. Nightshade Family—Deadly Nightshade.
- 677. Parsley Family—Spotted Hemlock.
- 678. Orpine Family—Wall Pepper.
- 679. Mint Family—Hedge Nettle.
- 680. Seed Leaf and Root of Monocotyledonous Plant—Rye.
- 681. Seed Leaves and Root of Dicotyledonous Plant—Bean.

These models are fac-similes of Flowers on an enlarged scale. They are beautifully coloured, can be easily taken apart to illustrate Physiological Botany.

Set of 90 Object Lessons from Vegetable Kingdom.

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|-------------------------------|-----------------------|--------------------|
| 682. Acorns. | 709. Camomile. | 737. Maize. |
| 683. Aloes. | 710. Cocoa. | 738. Maize Flour. |
| 684. Almonds. | 711. Currants. | 739. Mace. |
| 685. Arrowroot. | 712. Cinnamon. | 740. Mustard Seed. |
| 686. Barley. | 713. Chicory Root. | 741. Mustard. |
| 687. Barley Meal. | 714. Chicory, ground. | 742. Nutmeg. |
| 688. Black Pepper. | 715. Chesnut. | 743. Oats. |
| 689. Black Mustard Seed. | 716. Canada Balsam. | 744. Oatmeal. |
| 690. Bran. | 717. Carraway Seed. | 745. Oak Galls. |
| 691. Brazil Wood. | 718. Ground Nuts. | 746. Peas. |
| 692. Brown Sugar. | 719. Ground Pepper. | 747. Port Wine. |
| 693. Brazil Nuts. | 720. Green Tea. | 748. Pot Barley. |
| 694. Buckwheat. | 721. Ginger. | 749. Pitch. |
| 695. Buckwheat Flour. | 722. Ground Ginger. | 750. Raisins. |
| 696. Butternuts. | 723. Gum Acacia. | 751. Rape Seed. |
| 697. Beans. | 724. Hazlenuts. | 752. Resin. |
| 698. Camphor. | 725. Hominy. | 753. Rye. |
| 699. Canary Seed. | 726. Horehound. | 754. Rice. |
| 700. Cocoa Beans. | 727. Hickory Nuts. | 755. Sago. |
| 701. Cocoa Nibs. | 728. Hemp Seed. | 756. Senna Leaves. |
| 702. Castor Oil Beans. | 729. Hops. | 757. Saffron. |
| 703. Castor Oil. | 730. Ipecacuanha. | 758. Tar. |
| 704. Cardamons. | 731. Logwood. | 759. Turpentine. |
| 705. Cream of Tartar. | 732. Linseed. | 760. Vinegar. |
| 706. Coffee Beans, raw. | 733. Linseed Meal. | 761. Wheat. |
| 707. Coffee, ground. | 734. Linseed Oil. | 762. Wheat Flour. |
| 708. Coffee Beans,
roasted | 735. Liquorice Juice. | 763. White Pepper. |
| | 736. Long Pepper. | 764. Walnuts. |

CLASS 17.—GEOLOGY AND MINERALOGY.

Geological Charts :—

- 765. Reynold's Table showing the order of succession of Stratified Rocks.
- 766. Reynold's Table of British Strata.
- 767. Morris's Geological Chart.
- 768. Set of Models of Crystals in glass.
- 769. Set of Models of Crystals exemplifying the primary forms.

The Education Department of Ontario fosters and encourages the formation of Museums of Natural History in Public and High Schools, and recommends teachers and school trustees to assist their pupils in making collections of minerals, fossils, plants, leaves, insects, &c., which will afford amusement and instruction, stimulating a spirit of inquiry and observation in both sexes.

CLASS 18.—PHILOSOPHICAL CHARTS.

- 770. Johnston's Philosophical Charts (set of 7).

CLASS 19.—PHYSICAL AND CHEMICAL APPARATUS.

Matter, Force, and Motion :—

- 771. Mercury Tube and Cup for Porosity.
- 772. Inertia Apparatus.
- 773. Apparatus for illustrating Curvilinear Motion.
- 774. Set of Mechanical Powers, including three sets of brass pulleys, two sets of brass weights, compound levers, wheel and axle, screw, inclined plane, ship's capstan, &c.
- 775. Bent Lever.
- 776. Double Inclined Plane.
- 777. Collision Balls.
- 778. Model of Screw.
- 779. Model of Lock.
- 780. Gyroscope.
- 781. Centrifugal Machine.

Gravitation and Molecular Attraction :—

- 782. Centre of Gravity Apparatus.
- 783. Physical and Chemical Balance, in glass case. Its sensitiveness is such that, when charged with 1,000 grammes in each scale, an excess of $\frac{1}{1000}$ of a gramme in each scale produces a very perceptible difference in the index.
- 784. Guinea and Feather Apparatus for showing that a feather falls with the same velocity as a piece of metal when the air is exhausted.
- 785. Coulomb's Torsion Balance.

Hydrostatics :—

- 786. Haldat's Liquid Pressure Apparatus. To show that pressure is independent of the shape of the vessel and of the quantity of liquid.
- 787. Equilibrium Tubes.
- 788. Capillary Tubes.
- 789. Apparatus to illustrate Spouting of Fluids when falling from different heights.
- 790. Hydraulic Ram.
- 791. Hydraulic Press with Lever.

Hydrostatics—continued.

- 792. Bramah Press.
- 793. Cartesian Divers.
- 794. Hydrometers.
- 795. Specific Gravity Flasks.
- 796. Model of Archimedes Pump.
- 797. Under and Overshot Wheels.

Properties of Gases :—

- 798. Air Pump with two glass cylinders, syphon gauge, and bell glass receiver, mounted on a table. The exhausting power of this instrument is very great, the residue of air left in the receiver when carefully exhausted is only 1 in 600.
- 799. Air Pump with brass cylinder.
- 800. Condensing Syringe.
- 801. Copper Globe for Exhaustion, to form Fountain.
- 802. Model of Suction or Lifting Pump.
- 803. Model of Force Pump.
- 804. Magic Funnel.
- 805. Transfer Jar for Exhaustion under Bell Glass.
- 806. Fountain in Vacuo, with Jet, &c., for producing an Artificial Fountain.
- 807. Magdeburgh Hemispheres.
- 808. Daniell's Hygrometer.
- 809. Reynold's Chart of Barometer.
- 810. Marriotte and Boyle's Instrument for Measurement of the Elastic forces of Gases.
- 811. Apparatus for Mixture of Gases and Liquids.

Acoustics :—

- 812. Bell in Glass Globe to show that sounds are not produced in vacuo.
- 813. Sliding Rod and Ball, with Glass Receiver.
- 814. Water Hammer.

Heat (see also Chemical Apparatus) :—

- 815. Tyndall's Apparatus—Multiplying Wheel and Hinged Clamps, for showing that heat is developed by friction.
- 816. Ingenhouz's Apparatus—a metal trough to contain hot water, with rods of different metals, for showing the conducting power of metals.
- 817. Tyndall's Apparatus to show the Unequal Expansion of Iron and Brass by means of a Current.
- 818. Gravesande's Ball and Ring Pyrometer.
- 819. Ferguson's Pyrometer, with Vertical Dial, for showing Expansion of different Metals.
- 820. Wollaston's Cryophorus, to show that the freezing of water is due to rapid vaporization.
- 821. Differential Thermometer.
- 822. Gridiron Pendulum.
- 823. Franklin's Experiment (Pulse Glass).
- 824. Radiometer.
- 825. Psychrometer (Wet Bulb Thermometer).
- 826. Thermo-electric Battery or Pile.
- 827. Mellom's Thermo Multiplier with Concave Reflector.
- 828. Concave Reflectors.
- 829. Model of Locomotive Engine.
- 830. Model of Beam Engine and Boiler.
- 831. Miniature Working Model of Steam Engine.

Light :—

- 832. Large Binocular Microscope with movable diaphragm, fine adjustment, two sets of eye-pieces, nine objectives, achromatic condenser, rotating prism, &c., &c.
- 833. Public School Microscope for Botanical purposes.
- 834. Magic Lantern with $3\frac{1}{2}$ inch lenses.
- 835. Polarising Apparatus for Magic Lantern.
- 836. Solar Lantern.
- 837. Photogenic Lantern for Electric Light Apparatus.
- 838. Condensing Lenses.
- 839. Terrestrial Telescope on Stand.
- 840. Davey's Safety Lamp.
- 841. Revolving Disc for Decomposition of Light.
- 842. Camera Obscura.
- 843. Kaleidoscope.
- 844. Oxy-hydrogen Lamp.

Magnetism :—

- 845. Inclination Compass for Measuring the Magnetic Inclination or Drop.
- 846. Horse-shoe Magnets.

Frictional Electricity :—

- 847. Carre's Electrical Machine.
- 848. Plate Electrical Machine.
- 849. Holtz's Electrical Machine.
- 850. Electrophorus, consisting of a 10-inch plate with brass cover and glass handle.
- 851. Electric Battery of Leyden Jars, with Quadrant Electrometer.
- 852. Electrical Discharger.
- 853. Electrical Plate.
- 854. Electrical Orrery.
- 855. Electrical Sportsman.
- 856. Electric Egg for showing Spark in Rarefied Air.
- 857. Electrical Vane.
- 858. Electrical Head of Hair.
- 859. Electrical Pistol.
- 860. Cuthbertson's Balance Electrometer.
- 861. Dancing Image Plates.
- 862. Glass Globe for Dancing Images.
- 863. Coulomb's Ellipsoid (see Heat).
- 864. Apparatus for Light in Vacuo.
- 865. Illuminated Egg Stand.
- 866. Globe for Electric Spark.
- 867. Diamond or Luminous Jars.
- 868. Leyden Jars.
- 869. Spiral or Spotted Tubes.
- 870. Harris's Unit Jar for charging Leyden Jars, &c., with known quantities of Electricity.
- 871. Thunder House.

Dynamical Electricity :—

- 872. Bunsen's Battery.
- 873. Carbon Battery.
- 874. Grove's Battery.
- 875. Smee's Battery.
- 876. Decomposition of Water Apparatus
- 877. Electric Magnetic Bell.
- 878. Electric Pump.

Dynamical Electricity—continued.

- 879. Electro-magnetic Machine.
- 880. Electrotyping Apparatus.
- 881. Geissler's Tubes.
- 882. Apparatus for revolving Geissler's Tubes.
- 883. Mirror for Geissler's Tubes.
- 884. Hoffman's Apparatus for Electrolysis.
- 885. Helix and Bar.
- 886. Large Ruhmkorff Coil.
- 887. Commutator or Contact Breaker for ditto.
- 888. Ruhmkorff Coil with Commutator.
- 889. Oersted's Galvanometer.
- 890. Stand for Carbon Points for Electric Light.
- 891. Revolving Electro Magnet.
- 892. Revolving Armature and Magnet.
- 893. Model of Electric Telegraph with Index.
- 894. Model of Electric Telegraph for Sound.
- 895. Home and School Telegraph.
- 896. Telegraph with Paper Reel.
- 897. Mariner's Compass.

Chemistry :—

- 898. High and Public School Laboratory, containing Apparatus and Chemicals.

Apparatus for Experiments with Gases.

- 899. Apparatus for Combination of Oxygen and Hydrogen.
- 900. Apparatus for Volumetric Analysis.
- 901. Cavendish's Eudiometer.
- 902. Dobereiner's Hydrogen Lamp, for the instantaneous production of light by the action of spongy Platinum upon Hydrogen Gas.
- 903. Eprouvettes, or Deflagrating Jars.
- 904. Gas Jars with Stopcocks.
- 905. Glass Flasks.
- 906. Glass Retorts.
- 907. Hoffman's U Tube, to show the volume of Hydrogen in Hydrochloric Acid.
- 908. Hydrogen Pistol.
- 909. Mercury Bath.
- 910. Oxygen Globe and Stand.
- 911. Pipettes.
- 912. Retorts.
- 913. Retort Stands.
- 914. Safety Tubes, various.
- 915. Sulphuretted Hydrogen Apparatus.
- 916. Syringes.
- 917. Test Glasses.
- 918. Ventilating Apparatus.
- 919. Wash Bottles.
- 920. Woulff's Bottles with two and three necks.

Apparatus for Applying Heat.

- 921. Argand Burners (Gas).
- 922. Argand Lamps.
- 923. Argand Spirit Lamp, with Spirit Holder separate from Wick.
- 924. Glass Spirit Lamps.
- 925. Russian Lamp.

Miscellaneous Chemical Apparatus.

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| 926. Beaker Glasses. | 933. Chemical Balance. |
| 927. Chemical Bottles, wide-mouth
stoppered Bottles. | 934. Funnel Holders. |
| 928. Do. narrow-neck do. | 935. Glass Syphons. |
| 929. Do. wide-mouth open | 936. Do. Funnels. |
| 930. Do. narrow-neck do. | 937. Test Tubes. |
| 931. Crucibles, various. | 938. Test Tube Holder. |
| 932. Cork Borers. | 939. Universal Support, with attach-
ments for holding Apparatus. |

Map Supply Company, Toronto.

(See also School Furniture and Map Departments.)

940. Public School Air Pump with 8-inch plate—an excellent and reliable instrument for all ordinary purposes.
941. Bell Glass for ditto.
942. Air Pump with 6-inch plate.
943. Bell Glass for ditto.
944. Guinea and Feather Apparatus.
945. Magdeburgh Hemispheres.
946. Model of Lifting Pump.
947. Model of Force Pump.
948. Ramsden's Electrical Machine. This is an improvement on one of the earliest plate machines invented, and is the cheapest that can be obtained for Public Schools.
949. Leyden Jars.
950. Spiral or Spangled Tubes.
951. Electrical Discharger.
952. Dancing Image Plates.
953. Electrical Flier.
954. Electrical Pendulum.
955. Insulating Stool.
956. Electrolysis Apparatus.
957. Induction Cylinders.
958. Gyroscope.
959. Archimedes Principle.
960. Conductometer.
961. Ball and Ring Pyrometer.

CLASS 20.—PUPILS' WORK—KINDERGARTEN.

Provincial Model School, Toronto.*(Pupils' Work.) Conducted by Miss Hailman.**Beads (Miss Hailman's 2nd gift)—*

962. Examples to show Colour.
963. Do. do. Form.
964. Do. do. Colour and Form.

Chains—

965. Examples in Straws and Papers.
966. Do. Links.

Stick-laying—

967. Examples of same.

Parqueterie—

968. Examples of Tablet laying.

Kindergarten—continued.

Folding—Forms of Cognition—

- 969. Examples of Square Folding (1st School).
- 970. Do. Oblong Folding (2nd School).
- 971. Do. Triangular Folding (3rd School).
- 972. Do. Geometrical Folding.
- 973. Do. Groups of Geometrical Folding.

Weaving Mats—

- 974. Examples to illustrate Colour.
- 975. Do. do. Form.
- 976. Do. do. Colour and Form.
- 977. First Steps in Invention (Miss Hailman's Baby Mats).

Cutting and Pasting—

- 978. Simple School, founded on square inches.

Sewing—

- 979. Set of Bradley's Sewing Cards.

Freehand Weaving—

- 980. Examples of Cards.
- 981. Do. Baskets.

Interlacing—

- 982. Examples of Interlacing.

Kindergarten Work, Toronto Public Schools.

I. EXHIBIT OF TRAINING CLASS.

Conducted by Mrs. James L. Hughes.

		Specimens.
983. Paper Cutting and Pasting—(a) Designs from the Square	.. .. .	20
984. (b) Do. do. Hexagon	.. .. .	20
985. Free Cutting	.. .. .	5
986. Mat Weaving—(a) Regular Weaving	.. .. .	40
987. (b) Original Symmetrical Patterns	.. .. .	9
988. (c) Woven Pictures	.. .. .	9
989. Sewing—(a) Picture Sewing	.. .. .	9
990. (b) Symmetrical Designs	.. .. .	9
991. Paper Folding—One-inch square Foldings, grouped to form a Tea Set	.. .. .	5
992. Paper Interlacing	.. .. .	20
993. Perforating—Embossed Designs	.. .. .	16

II. CHILDREN'S WORK.

994. Mat Weaving—(a) Counting Patterns	.. .. .	24
995. (b) Form Patterns	.. .. .	12
996. Free Weaving	.. .. .	20
997. Paper Folding	.. .. .	21
998. Sewing—Picture Cards	.. .. .	30
999. Perforating—(a) Picture Outlines	.. .. .	20
1000. (b) Symmetrical Designs	.. .. .	9

CLASS 21.—PUPILS' WORK—PUBLIC AND SEPARATE SCHOOLS.

Number of Schools in operation, 5,316.

This section of the Catalogue represents the ordinary work done by children from 7 to 14 years of age in the following departments:—

Writing : Specimens of general work of 416,588 pupils.

Arithmetic: Do. do. 422,076 do.

Geography: Do. Map Drawing of 280,953 do.

Map Drawing is taught simultaneously with the Text-Books in Geography.

Drawing: Specimens of Drawing Books and Drawings, general work of 255,821 pupils.

Drawing was made compulsory in the Province of Ontario in July, 1885. A series of Drawing Books for teaching the elements of Industrial Drawing has recently been prepared under the direction of the Minister of Education for use in the Public and High Schools.

The Drawings exhibited have been taken from the work in progress in the schools in the middle of the term, and although showing considerable skill are scarcely a fair example of the improvement which can be made in a full session.

I.—COUNTIES.

Brant Co. (Pupils' Work).

1001. Mount Pleasant School .. 5 Writing; 5 Arithmetic; 3 Maps;
2 Drawing.

Carleton Co.—(Pupils' Work).

1002. S.S. 2 Goulbourn .. 2 Writing; 1 Drawing Book.
1003. S.S. 4 Goulbourn .. 3 Writing.
1004. S.S. 4 Gower N. .. 1 Writing.
1005. S.S. 5 Huntley .. 2 Writing; 2 Arithmetic.
1006. S.S. 3 Nepean .. 4 Writing; 1 Arithmetic; 2 Drawing.
1007. S.S. 4 Nepean .. 1 Map.

Dundas Co. (Pupils' Work).

1008. S.S. 1 Inkerman .. 4 Arithmetic; 4 Maps.
1009. S.S. 9 Matilda .. 1 Writing; 1 Arithmetic; 1 Map.
1010. S.S. 7 Mountain .. 4 Arithmetic; 1 Map.
1011. S.S. 18 Mountain .. 1 Map.
1012. S.S. 4 Williamsburg .. 4 Arithmetic; 1 Copy Book.
1013. S.S. 9 Williamsburg .. 4 Arithmetic.
1014. S.S. 12 Williamsburg .. 3 Arithmetic; 11 Maps; 2 Copy Books.
1015. S.S. 22 Williamsburg .. 6 Maps.
1016. S.S. 1 Winchester .. 4 Arithmetic.
1017. S.S. 2 Winchester .. 9 Arithmetic; 2 Maps; 2 Copy Books.
1018. S.S. 4 Winchester .. 2 Copy Books.

Durham Co. (Pupils' Work).

1019. S.S. 2 Cavan .. 3 Maps; 6 Drawings; 1 Copy Book.

Essex Co. (Pupils' Work).

1020. S.S. 2 Colchester N. .. 1 Writing; 1 Arithmetic.
1021. S.S. 2 Colchester S. .. 6 Writing.
1022. S.S. 4 Gosfield .. 2 Writing; 1 Arithmetic; 1 Map.
1023. S.S. 2 Malden .. 6 Writing; 9 Arithmetic; 3 Maps.

COUNTIES—*continued.*

Frontenac Co. (Pupils' Work).

1024. S.S. 7 Portland 1 Copy Book.

Halton Co. (Pupils' Work).

1025. S.S. 6 Esquesing 2 Drawing.
 1026. S.S. 10 Esquesing 4 Writing; 6 Arithmetic; 1 Copy Book.
 1027. S.S. 11 Esquesing 4 Arithmetic; 5 Drawing.
 1028. S.S. 5 Nassagaweya 4 Writing; 4 Arithmetic; 1 Map.
 1029. S.S. 6 Nelson 3 Writing; 1 Arithmetic; 1 Map.
 1030. S.S. 12 Nelson 2 Arithmetic; 1 Copy Book.
 1031. S.S. 5 Trafalgar 1 Map; 1 Copy Book.
 1032. S.S. 10 & 18 Trafalgar 1 Map; 1 Drawing Book; 1 Copy Book.
 1033. S.S. 11 Trafalgar 3 Writing; 2 Arithmetic; 10 Drawing.
 1034. S.S. 14 Trafalgar 2 Arithmetic; 2 Drawing.

Haldimand Co. (Pupils' Work).

1035. S.S. 6 Caledonia 7 Maps.
 1036. S.S. 2 Canboro' 4 Drawings.
 1037. S.S. 5 Cayuga S. 3 Copy Books.
 1038. Decewsville School 1 Copy Book; 2 Maps; 24 Drawings.
 1039. S.S. 2 Dunn 3 Copy Books.
 1040. S.S. 4 Dunn 3 Copy Books; 1 Drawing.
 1041. Hagarsville School 2 Copy Books; 12 Drawings.
 1042. S.S. 2 Moulton 1 Map; 1 Drawing Book.
 1043. S.S. 6 Seneca 1 Copy Book.
 1044. S.S. 8 Springvale 9 Drawings.
 1045. S.S. 1 Walpole 3 Copy Books.
 1046. S.S. 6 Walpole 8 Drawing Books.
 1047. S.S. 16 Walpole 2 Maps.
 1048. York School 3 Copy Books.

Hastings Co. (Pupils' Work).

1049. Plainfield School 6 Writing; 6 Arithmetic.
 1050. S.S. 6 Sidney 3 Writing; 2 Copy Books; 7 Arithmetic;
 7 Maps; 4 Drawings.
 1051. S.S. 11 Thurlow 6 Writing; 6 Arithmetic; 4 Maps; 7
 Drawings.

Huron Co. (Pupils' Work).

1052. Blyth School 6 Designs for Oil Cloth.

Kent Co. (Pupils' Work).

1053. S.S. 2 Chatham 3 Writing; 1 Copy Book; 2 Maps.
 1054. S.S. 7 Chatham 7 Writing; 2 Arithmetic; 3 Maps; 2
 Drawings.
 1055. S.S. 12 Chatham 1 Copy Book; 1 Arithmetic.
 1056. S.S. 2 Dover 4 Writing; 3 Arithmetic; 7 Maps; 3
 Drawings.
 1057. S.S. 13 Dover 15 Writing; 7 Arithmetic.
 1058. S.S. 7 Raleigh 6 Writing.
 1059. S.S. 9 Raleigh 14 Writing; 17 Arithmetic; 11 Maps.
 1060. S.S. 1 Romney 9 Writing; 4 Arithmetic; 3 Maps.
 1061. S.S. 3 Romney N. 3 Writing; 2 Arithmetic.
 1062. S.S. 2 Tilbury E. 2 Writing; 2 Arithmetic; 2 Maps.
 1063. S.S. 4 Tilbury E. 3 Writing; 3 Arithmetic; 3 Maps; 2
 Drawings.

COUNTIES—*continued.**Lambton Co. (Pupils' Work).*

1064. S.S. 2 Euphemia	..	..	1 Copy Book; 3 Maps.
1065. S.S. 2 Warwick	..	..	2 Writing.

Lanark Co. (Pupils' Work).

1066. Fullbrook School	..	..	3 Maps.
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Leeds Co. (Pupils' Work).

1067. Delta School	..	..	16 Arithmetic; 1 Map; 3 Drawing Books.
1068. Farmersville School	..	..	4 Writing; 2 Arithmetic.

Lennox and Addington Cos. (Pupils' Work).

1069. Big Creek School	..	..	4 Maps.
1070. S.S. 3 Camden	..	..	2 Writing; 2 Copy Books; 3 Arithmetic; 2 Maps; 1 Drawing Book.
1071. S.S. 6 Camden	..	..	5 Drawings.
1072. S.S. 4 Ernestown	..	..	1 Writing; 3 Maps.
1073. S.S. 6 Ernestown	..	..	1 Drawing.
1074. Hamburg School	..	..	6 Maps.
1075. Millhaven School	..	..	2 Drawings.
1076. Morven School	..	..	3 Arithmetic.
1077. Napanee Mills School	..	..	3 Writing.
1078. Odessa School	..	..	2 Writing; 4 Copy Books; 10 Maps; 5 Drawing Books; 4 Drawings.

Lincoln Co. (Pupils' Work).

1079. S.S. 7 Caistor	..	..	7 Writing; 3 Arithmetic; 4 Maps; 5 Drawings.
1080. S.S. 2 Gainsboro'	..	..	1 Writing; 1 Arithmetic.
1081. S.S. 10 Gainsboro'	..	..	2 Copy Books; 2 Arithmetic; 14 Maps; 4 Drawings; 1 Drawing Book.
1082. S.S. 5 Grantham	..	..	3 Writing; 3 Arithmetic; 4 Maps.
1083. S.S. 2 Louth	..	..	3 Writing; 4 Copy Books; 1 Drawing Book.
1084. S.S. 3 Louth	..	..	2 Writing; 3 Arithmetic; 4 Maps; 5 Drawings.
1085. S.S. 4 Louth	..	..	8 Copy Books; 6 Arithmetic; 15 Maps; 12 Drawing Books.
1086. S.S. 4 Niagara	..	..	6 Writing; 1 Copy Book; 6 Arithmetic; 3 Maps.
1087. S.S. 6 Niagara	..	..	1 Map.

Middlesex E. Co. (Pupils' Work).

1088. S.S. 3 Biddulph	..	..	1 Drawing Book.
1089. S.S. 4 Dorchester	..	..	4 Drawing Books.
1090. S.S. 19 London	..	..	1 Drawing Book.
1091. S.S. 22 London	..	..	1 Drawing Book.
1092. S.S. 2 Nissouri W.	..	..	1 Drawing Book.
1093. Odell's, Westminster School	..	..	6 Writing; 6 Arithmetic; 9 Maps.
1094. Oneida Indian School	..	..	11 Writing; 2 Maps; 10 Drawings.
1095. S.S. 2 Westminster	..	..	1 Drawing Book.
1096. S.S. 17 Westminster	..	..	1 Arithmetic; 6 Maps; 24 Drawings.

Norfolk Co. (Pupils' Work).

1097. Waterford School	..	..	20 Writing; 19 Arithmetic; 5 Grammar; 3 Book-keeping; 3 Algebra; 2 Euclid; 11 Music.
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COUNTIES—*continued.*

Ontario Co. (Pupils' Work).

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| 1098. S.S. 4 Mara | 4 Writing. |
| 1099. Manilla School | 1 Copy Book; 25 Arithmetic; 3 Maps;
2 Drawing Books. |
| 1100. S.S. 1 Whitby E. | 6 Copy Books; 12 Arithmetic; 3 Drawing
Books. |

Prince Edward Co. (Pupils' Work).

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| 1101. S.S. 10 Ameliasburg | 10 Writing; 16 Maps. |
| 1102. S.S. 2 Athol | 2 Writing; 11 Maps. |
| 1103. S.S. 5 Athol | 1 Arithmetic; 1 Map. |
| 1104. Consecon School | 3 Writing; 8 Drawings; 1 Drawing Book. |
| 1105. S.S. 10 Hillier | 6 Writing; 5 Arithmetic; 7 Maps. |
| 1106. S.S. 2 Marysburgh N. | 3 Writing; 4 Arithmetic; 3 Maps. |
| 1107. Millford School | 5 Writing; 7 Arithmetic; 10 Maps; 7
Drawings; 1 Drawing Book. |

Renfrew Co. (Pupils' Work).

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| 1108. S.S. 2 Algona N. | 4 Writing; 4 Arithmetic. |
| 1109. S.S. 3 Algona S. | 1 Copy Book. |
| 1110. S.S. 1 Alice | 1 Copy Book; 1 Arithmetic. |
| 1111. S.S. 6 Alice | 1 Copy Book; 4 Drawing Books. |
| 1112. S.S. 3 Bagot | 1 Copy Book; 1 Drawing Book. |
| 1113. S.S. 5 Bagot | 1 Writing; 2 Copy Books; 3 Arithmetic;
1 Drawing. |
| 1114. S.S. 2 Bromley | 1 Writing; 3 Copy Books; 7 Arithmetic. |
| 1115. S.S. 2 Brudenell | 4 Writing; 9 Arithmetic; 4 Maps. |
| 1116. Forester Falls School | 5 Writing; 18 Arithmetic; 1 Map. |
| 1117. S.S. 2 Grattan | 3 Copy Books; 29 Arithmetic; 3 Maps. |
| 1118. S.S. 8 Grattan | 3 Writing. |
| 1119. S.S. 2 Horton | 4 Copy Books; 3 Arithmetic. |
| 1120. S.S. 10 McNab | 4 Copy Books; 3 Arithmetic; 3 Drawing
Books. |
| 1121. S.S. 13 McNab | 4 Drawing Books. |
| 1122. S.S. 2 Petawawa | 6 Copy Books; 11 Arithmetic; 2 Maps;
12 Drawings. |
| 1123. Rankin School | 3 Copy Books. |
| 1124. Rockingham School | 1 Arithmetic; 3 Maps. |
| 1125. S.S. 4 Ross | 5 Copy Books; 2 Maps. |
| 1126. S.S. 9 Ross | 11 Arithmetic; 2 Maps. |

Simcoe Co. (Pupils' Work).

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| 1127. S.S. 1 Adjala. | 7 Writing; 7 Maps; 13 Drawings;
Drawing Books. |
| 1128. S.S. 5 Adjala. | 14 Writing; 13 Maps. |
| 1129. S.S. 6 Adjala. | 11 Writing; 5 Drawings. |
| 1130. Bondhead School | 8 Writing; 9 Maps; 6 Drawings. |
| 1131. S.S. 1 Essa | 16 Writing; 14 Maps; 15 Drawings |
| 1132. S.S. 4 Essa | 7 Writing; 3 Maps. |
| 1133. S.S. 5 Essa | 13 Writing; 5 Maps; 9 Drawings. |
| 1134. S.S. 6 Essa | 10 Writing. |
| 1135. S.S. 8 Essa | 10 Writing; 6 Maps; 17 Drawings. |
| 1136. S.S. 10 Essa | 10 Writing; 9 Maps; 7 Drawings. |
| 1137. S.S. 11 Essa | 13 Writing; 6 Maps; 11 Drawings. |
| 1138. S.S. 15 Essa | 29 Writing; 19 Maps; 16 Drawings. |
| 1139. S.S. 1 Gwillimbury West | 11 Writing; 6 Maps; 6 Drawings. |
| 1140. S.S. 4 Gwillimbury West | 9 Writing; 2 Maps; 5 Drawings. |
| 1141. S.S. 16 Gwillimbury West | 10 Writing; 3 Maps; 6 Drawings. |
| 1142. S.S. 6 Innisfil | 18 Writing. |
| 1143. S.S. 8 Innisfil | 1 Drawing Book. |

COUNTIES—continued.

Simcoe Co. (Pupils' Work)—continued.

1144. S.S. 10 Innisfil	14 Writing; 6 Maps; 9 Drawings.
1145. S.S. 11 Innisfil	11 Writing; 9 Maps; 7 Drawings.
1146. S.S. 13 Innisfil	10 Writing; 5 Maps; 1 Drawing.
1147. S.S. 1 Medora	18 Writing; 11 Maps.
1148. S.S. 4 Tecumseth	13 Writing; 11 Maps; 9 Drawings.
1149. S.S. 8 Tecumseth	12 Writing; 2 Drawings.
1150. S.S. 9 Tecumseth	3 Maps; 8 Drawings.
1151. S.S. 17 & 13 Tecumseth & Essa	11 Writing; 8 Maps; 5 Drawings.
1152. S.S. 2 Tossorontio	19 Writing; 6 Drawings.
1153. Tottenham School	4 Writing; 7 Maps.
1154. S.S. 1 Watt	7 Writing; 10 Maps; 4 Drawings.

Waterloo Co. (Pupils' Work).

1155. S.S. 19 Dumfries N.	9 Writing; 2 Arithmetic; 4 Drawings.
1156. S.S. 25 Dumfries N.	4 Copy Books; 6 Arithmetic; 8 Maps.
1157. S.S. 5 Waterloo	11 Writing; 6 Arithmetic.
1158. S.S. 17 Waterloo	3 Copy Books; 1 Arithmetic; 1 Map.

Welland Co. (Pupils' Work).

1159. Port Robinson School	15 Writing; 3 Drawing Books.
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Wellington Co. (Pupils' Work).

1160. S.S. 3 Eramosa	13 Writing; 4 Arithmetic; 2 Maps; 5 Drawing Books.
1161. S.S. 13 Erin	8 Writing; 1 Copy Book; 10 Arithmetic; 2 Maps.
1162. S.S. 1 Garafraxa W... ..	3 Copy Books.
1163. S.S. 9 Garafraxa W... ..	2 Writing; 10 Arithmetic.
1164. Glenallan School	2 Writing; 2 Copy Books; 3 Arithmetic; 2 Maps.
1165. S.S. 1 Guelph	2 Drawing Books.
1166. S.S. 4 Guelph	1 Drawing Book.
1167. S.S. 4½ Guelph	3 Copy Books; 3 Arithmetic; 1 Map.
1168. S.S. 6 Guelph	2 Copy Books; 3 Arithmetic; 4 Maps.
1169. S.S. 1 Luther W. & Garafraxa W.	2 Writing; 3 Copy Books; 3 Arithmetic.
1170. S.S. 12 Minto School	7 Copy Books; 13 Drawing Books.
1171. Parker School	2 Copy Books; 11 Arithmetic; 18 Maps.
1172. S.S. 4 Pilkington	2 Arithmetic; 3 Drawing Books.
1173. S.S. 5 Pilkington	1 Drawing Book.
1174. S.S. 1 Puslinch	4 Copy Books; 5 Arithmetic; 3 Drawing Books.
1175. S.S. 2 Puslinch	1 Writing; 1 Copy Book; 2 Drawing Books.
1176. S.S. 4 Puslinch	17 Writing; 10 Drawings.
1177. Salem School	2 Arithmetic; 1 Map; 1 Drawing Book.
1178. Speedside School	9 Writing; 9 Arithmetic; 4 Maps; 8 Drawings.

York Co. (Pupils' Work).

1179. S.S. 4 Gwillimbury E.	1 Drawing Book.
1180. S.S. 4 King	6 Copy Books; 3 Drawing Books.
1181. Pottageville School	1 Map.
1182. S.S. 3 Vaughan	9 Writing; 3 Arithmetic; 3 Maps; 5 Drawings.

II.—CITIES—PUBLIC SCHOOLS (Pupils' Work).

1183. Toronto	Writing, 267 Papers; Arithmetic, 349 Papers; Geography, 269 Papers; Map Work in Drawing; Relief Maps in Putty, Woolwork, Wood-carving, Wood-sawing, Appliqué Work, Patchwork, Paper-cutting, Plaster Paris, Wax; Drawing, 1, 2, 3, 4, and 5 series; Algebra, 134 Papers; Geometry, 92 Papers; Book-keeping, 90 Papers; Grammar, 314 Papers; Composition, 156 Papers; History, 148 Papers; Physiology and Hygiene, 130 Papers; Business Forms, 72 Papers; Drill and Calisthenics.
1184. Belleville	47 Writing; 47 Arithmetic; 15 Maps; 1 Drawing Book.
1185. Brantford, Central School ..	4 Maps; 5 Drawing Books.
1186. Hamilton	86 Writing; 60 Arithmetic; 44 Maps; 94 Drawings; 53 Drawing Books.
1187. London, Separate School ..	5 Writing.
1188. Ottawa, Separate School ..	10 Writing; 10 Arithmetic; 9 Maps; 16 Drawing Books.
1189. St. Catharines, Separate School	6 Writing; 8 Maps; 12 Drawings—Machinery, Cabinet Ware, Models, &c.
1190. Stratford	3 Maps.
1191. Toronto, Separate School ..	3 Writing; 20 Arithmetic; 10 Maps; 7 Drawings—Freehand, Shading from Plants and Flowers.

III.—TOWNS (Pupils' Work).

1192. Amherstburg	13 Writing; 8 Arithmetic.
1193. Brockville	144 Writing; 7 Copy Books; 102 Arithmetic; 21 Maps; 18 Drawings.
1194. Berlin	35 Writing; 13 Arithmetic; 13 Maps; 6 Drawings; 4 Drawing Books.
1195. Bowmanville	13 Writing; 14 Drawings; 4 Drawing Books.
1196. Bowmanville, Union School ..	4 Writing; 7 Copy Books; 4 Drawings.
1197. Blenheim	29 Writing; 14 Arithmetic; 6 Arithmetic Exercise Books; 6 Maps.
1198. Barrie	2 Drawings.
1199. Brampton	8 Maps.
1200. Chatham, Central School ..	2 Maps.
1201. Cornwall, Separate School ..	7 Writing; 7 Arithmetic; 6 Maps.
1202. Listowel	9 Arithmetic; 23 Maps; 3 Drawing Books.
1203. Milton	27 Writing; 41 Arithmetic; 13 Maps; 16 Drawings.
1204. Napanee	20 Writing; 25 Arithmetic; 13 Maps.
1205. Newmarket	15 Arithmetic; 7 Maps; 10 Drawing Books.
1206. Pembroke	5 Writing; 5 Maps.

TOWNS—*continued.*

1207. Port Hope	4 Copy Books; 4 Maps.
1208. Picton	136 Writing; 89 Maps; 4 Drawings.
1209. Port Hope	7 Copy Books; 3 Maps; 4 Drawing Books.
1210. Port Hope Union School ..	1 Copy Book; 1 Map.
1211. Trenton	1 Writing; 12 Arithmetic; 14 Maps; 13 Drawings.

IV.—VILLAGES (Pupils' Work).

1212. Alliston	13 Writing; 27 Maps; 35 Drawings.
1213. Arnprior	25 Writing; 28 Arithmetic; 10 Drawing Books.
1214. Bath	3 Writing; 12 Arithmetic; 27 Maps; 5 Drawings.
1215. Burlington	1 Drawing.
1216. Caledonia	5 Copy Books; 2 Drawing Books.
1217. Carleton Place	4 Writing; 4 Maps.
1218. Drayton	1 Drawing Book.
1219. Dunnville	3 Copy Books; 10 Drawings.
1220. Fergus	37 Writing; 2 Copy Books; 9 Arithmetic; 3 Maps.
1221. Gananoque	32 Writing; 23 Arithmetic; 8 Maps; 8 Drawings.
1222. Gravenhurst	9 Writing; 2 Copy Books; 3 Maps.
1223. Hespeler	7 Copy Books; 29 Arithmetic.
1224. Iroquois	6 Arithmetic; 1 Map.
1225. Leamington	7 Writing; 9 Arithmetic; 7 Maps.
1226. London West	6 Drawing Books.
1227. Newcastle	25 Maps.
1228. Newboro'	6 Writing; 10 Arithmetic; 2 Maps.
1229. Preston	11 Writing; 16 Copy Books; 27 Arithmetic; 24 Maps; 31 Drawings.
1230. Port Dalhousie	1 Writing; 1 Copy Book; 2 Arithmetic; 3 Maps; 1 Drawing Book.
1231. Richmond	19 Arithmetic; 6 Maps.
1232. Stirling	17 Writing; 3 Copy Books; 17 Arithmetic; 12 Maps.
1233. Uxbridge	6 Copy Books; 4 Maps.
1234. Wellington	6 Writing; 3 Arithmetic; 9 Maps; 1 Drawing.

PROVINCIAL NORMAL AND MODEL SCHOOLS (Pupils' Work).

1235. Toronto Normal School ..	9 Writing; 27 Drawings—Freehand.
1236. Toronto Model School ..	9 Writing; 9 Drawings—Freehand.
1237. Ottawa Normal School ..	30 Drawings—Freehand, Perspective, Shading from Flat, &c.
1238. Ottawa Model School ..	200 Specimens of Drawing.

HIGH SCHOOLS AND COLLEGIATE INSTITUTES (Pupils' Work).

1239. Belleville	..	..	..	Freehand Drawings and Industrial Designs.
1240. Bradford	..	..	..	Drawings—Linear and Angular Perspective, Model Drawing, Freehand Drawing.
1241. Brockville	..	..	..	Maps and Examination Papers in Freehand, Geometry, Perspective, &c.
1242. Caledonia	..	..	..	20 Maps.
1243. Chatham	..	..	..	4 Maps.
1244. Fergus	..	..	..	5 Writing; 7 Arithmetic; 1 Map.
1245. Gananoque	..	..	..	11 Writing; 2 Maps.
1246. Hamilton	..	..	..	45 Writing; 25 Arithmetic; 32 Maps; 30 Drawings—Freehand, Pen and Ink Sketches, Industrial Designs, Water Colours, &c.
1247. Orangeville	..	..	..	28 Drawings.
1248. Port Perry	..	..	..	11 Drawings and Examination Papers in Freehand, Geometry, Perspective, &c.
1249. Stratford	..	..	..	Freehand Drawings, Pen and Ink Sketches, Industrial Designs, Water Colours, Maps, &c.
1250. Whitby	..	..	..	73 Drawings—Freehand, Geometry, Perspective, Shading from Flat, Designs, &c.

Specimens of Examination Work in Drawing, Grade B, including Freehand, Geometry, Perspective, Model, and Blackboard and Memory, from the following High Schools and Collegiate Institutes :—

1251. Aylmer.	1259. London.	1267. St. Thomas.
1252. Belleville.	1260. Morrisburg.	1268. St. Mary's.
1253. Bradford.	1261. Orangeville.	1269. Stratford.
1254. Brockville.	1262. Owen Sound.	1270. Strathroy.
1255. Chatham.	1263. Parkhill.	1271. Streetsville.
1256. Fergus.	1264. Port Perry.	1272. Whitby.
1257. Kemptville.	1265. Port Dover.	1273. Woodstock.
1258. Kincardine.	1266. Picton.	

PART II.

MECHANICS' INSTITUTES.

Dr. S. P. MAY, C.L.H., Superintendent.

These Institutions receive from the Government two dollars for every dollar expended up to the sum of four hundred dollars per annum. In 1885, 147 Institutes were in existence, but only 122 reported, with an expenditure of 117,931 dollars.

The sum of one hundred dollars is allowed to each Institute conducting Drawing Classes; Examinations are held at the end of each term; fifty Mechanics' Institutes held Examinations in Drawing on 1st March, 1886.

Specimens of Examination Work in Drawing, including Freehand, Geometry, Perspective, Model, and Blackboard and Memory Drawing from the following Mechanics' Institutes:—

1274. Aurora.	1291. Goderich.	1307. Prescott.
1275. Ailsa Craig.	1292. Guelph.	1308. Preston.
1276. Almonte.	1293. Kemptville.	1309. Penetanguishene.
1277. Arnprior.	1294. Mount Forest.	1310. Richmond Hill.
1278. Barrie.	1295. Milton.	1311. St. Catharines.
1279. Brantford.	1296. Midland.	1312. Schomberg.
1280. Berlin.	1297. Mitchell.	1313. St. George.
1281. Blyth.	1298. Newmarket.	1314. St. Marys.
1282. Brockville.	1299. Napanee.	1315. Seaforth.
1283. Carleton Place.	1300. Orangeville.	1316. Stouffville.
1284. Cheltenham.	1301. Orillia.	1317. Smith's Falls.
1285. Claude.	1302. Paris.	1318. Strathroy.
1286. Durham.	1303. Parkhill.	1319. Stratford.
1287. Elora.	1304. Perth.	1320. Streetsville.
1288. Galt.	1305. Peterboro'.	1321. Whitby.
1289. Garden Island.	1306. Port Perry.	1322. Woodstock.
1290. Georgetown.		

Association of Mechanics' Institutes for Ontario.

1323. **Edwards, W.**, *Secretary of Association, Toronto*—Roll and Record Books; Accession Books.

Carleton Place Mechanics' Institute (Pupils' Work).

MACHINE DRAWING.

1324. Morgan, William E.—Details of Machinery.
 1325. Hurliman, Jacob—Top Valve of Injector, &c.
 1326. Smith, Geo.—Crosshead for Stationary Engine, &c.
 1327. Morgan, W. E.—Spur Wheel, &c.
 1328. Smith, Geo.—High Pressure Return-tube Boiler.

MACHINE DRAWING—continued.

1329. Morgan, R. I.—Hand-feed Drilling Machine.
 1330. Burnie, John S.—Mud Cock and Connecting Rod.
 1331. Morgan, R. J.—Check Valve (full size).
 1332. Myles, J. C.—Crosshead and Little End for Stationary Engine ($\frac{1}{2}$).
 1333. Smith, Geo.—Shafts.
 1334. Morgan, R. J.—Box for Car Axle, &c.
 1335. Myles, J. C.—Axle Box and Throttle Valve.
 1336. Davies, Wm.—Crosshead for Stationary Engine.
 1337. Thompson, J.—Machinery.
 1338. Drummond, A. W.—Coupling and Spur Wheels.
 1339. Penny, C.—Crosshead for Stationary Engine.
 1340. **Johnson, Lacey R.**—Working Model of English Locomotive Engine, made to scale of one inch to the foot.
 1341. **Parker A.**—Ornamental Inlaid Wood Table.
 1342. **McVety, Jas.**—Model of Dwelling House or Shanty as built by the early settlers in Canada.

*Guelph Free Library.***Brien, J. O.**—CARVING IN WOOD.

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|-----------------------------------|------------------------------------|
| 1343. Boy and Rabbit. | 1350. Pair Carved Brackets. |
| 1344. Bunch of Roses. | 1351. Pair Large Heads. |
| 1345. Fox and Rabbit. | 1352. Pair Small Heads. |
| 1346. Hare. | 1353. Pair Wall Pockets, |
| 1347. Head of Spaniel Dog. | 1354. Pair Bunches of Fruit, |
| 1348. Hunting Scene. | 1355. Leg of Piano. |
| 1349. Match Box. | 1356. Lyre for Piano. |
| 1357. Allen, D.—Ornamental Panel. | 1360. Howell, C.—Ornamental Panel. |
| 1358. Doran, Miss A. M. ditto. | 1361. Neugle, E. G. ditto. |
| 1359. Harris, E. ditto. | 1362. Waldman, H. ditto. |

Garden Island Mechanics' Institute.

1363. **Cumming, Archd.**—Working Model of a Harbour Tug Steam Engine.
 1364. **Malone, Anthony.**—Model of a Dram of Timber as prepared for running the Rapids of the River St. Lawrence.

The rafting and forwarding of square-hewn timber for the Quebec market was commenced at Garden Institute (port of Kingston) in the year 1844, by Dileo Dexter Calvin, and has been continuously carried on by the same family, his son, Hiram A. Calvin, being the present head of the firm.

During the past season, 1885, there was forwarded from the Port of Kingston to Quebec—Square Oak Timber, over one million seven hundred thousand cubic feet; Elm and Ash, over one million cubic feet; Square and Waney Pine, over two millions seven hundred thousand cubic feet.

The model is an exact representation of what is usually termed an oak dram. Ten or more of these drams lashed strongly together constitute a raft.

Galt Mechanics' Institute.

MACHINE DRAWING.

1365. Adams, J. W.—Wheelock Engine.
 1366. Brown, G.—Front Side and Elevation of Pump; Plan of a Screw Jack.
 1367. Hamilton, R. M.—Spur Gear; Plan and Elevation of Gear Wheel.
 1368. Scott, J.—Mitre Gear.

Milton Mechanics' Institute.

FREEHAND DRAWING.

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|--------------------------------------|----------------------------------|
| 1369. Clements, M.—Freehand Drawing. | 1374. Lyon, A.—Freehand drawing. |
| 1370. Duncan, J. do. | 1375. Patterson, J. do. |
| 1371. Ezard, B. do. | 1376. Robertson, G. do. |
| 1372. Johnson, F. do. | 1377. Sanderson, M. do. |
| 1373. Lyon, F. do. | 1378. Robertson, M. do. |

Port Perry Mechanics' Institute.

DRAWINGS.

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|---|---|
| 1379. Dound, C. F.—Freehand Drawing. | 1395. Richardson, E. — Linear Perspective. |
| 1380. Edgar, Oscar do. | 1396. Points, W. D.—Practical Geometry. |
| 1381. Jardine, Jas. do. | 1397. Rees, H. do. |
| 1382. Oliver, G. W. do. | 1398. Richardson, E. do. |
| 1383. Points, W. D. do. | 1399. Edgar, Oscar.—Geometry and Perspective. |
| 1384. Richardson, E. do. | 1400. Pound, C. F. do. do. |
| 1385. Ross, J. F. do. | 1401. Ross, F. O. do. do. |
| 1386. Ross, Fred O. do. | 1402. Trounce, J. W. do. do. |
| 1387. Trounce, J. W. do. | 1403. Valentine, G. G. do. do. |
| 1388. Tabe, J. W. do. | 1404. Wenly, A. L. do. do. |
| 1389. Vallentyne, G. G. do. | 1405. Points, W. D. — Mechanical Drawing. |
| 1390. Wenly, A. L. do. | 1406. Edgar, Oscar. — Shading from the Flat. |
| 1391. Jardine, J. — Linear Perspective. | 1407. Wenly, A. L. do. do. |
| 1392. Oliver, G. W. do. | |
| 1393. Points, W. D. do. | |
| 1394. Rees, H. do. | |

Whitby Mechanics' Institute.

DRAWINGS.

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|-------------------------------------|---|
| 1408. Arletta, N.—Freehand Drawing. | 1414. Bowerman, L. M.—Perspective. |
| 1409. Bowerman, L. M. do. | 1415. Dundas, A. do. |
| 1410. Bowerman, J. S. do. | 1416. Dixon, S. do. |
| 1411. Norton, J. do. | 1417. Arletta, N.—Shading from the round. |
| 1412. Starr, C. L. do. | 1418. Arletta, N.—Outline from the round. |
| 1413. Starr, Frank do. | |

Mechanics' Institutes and Branch Art Schools.

MECHANICAL CHARTS, &C.

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|---|--|
| 1419. Reynold's Chart of Condensing Steam Engine. | 1422. Reynold's Chart of Marine Engine. |
| 1420. do. Chart of Locomotive Engine. | 1423. do. Chart of Marine Paddle Engine. |
| 1421. do. Chart of Oscillating Marine Engine. | 1424. do. Chart of Marine Screw Engine. |

MECHANICAL CHARTS, &c.—*continued.*

1425.	Reynold's Chart of High Pressure Engine.	1435.	Reynold's Chart of Printing Machine.
1426.	do. Chart of Coal Mining	1436.	do. Chart of Pumps.
1427.	do. Chart of Cotton Plant and its Cultivation.	1437.	do. Chart of Mechanism of Clock.
1428.	do. Chart of Distillery.	1438.	do. Chart of Mechanism of Watch.
1429.	do. Chart of Electric Telegraph.	1439.	do. Chart of Manufacture of Coal Gas.
1430.	do. Chart of Fire Engine.	1440.	Mabrum's Turbine Wheel.
1431.	do. Chart of Flour Mill.	1441.	Examples of Machine Details (set of 16). Department Science and Art.
1432.	do. Chart of Gas Meter.	1442.	Sopwith's Surveying Diagrams.
1433.	do. Chart of Hydraulic Press.		
1434.	do. Chart of Paper Machine.		

PART III.

ART SCHOOLS.

DR. S. P. MAY, C.L.H., Superintendent.

The Ontario School of Art was established in Toronto in 1876. Although entirely supported by the Government, it was formerly under the management of the Ontario Society of Artists; but in order to afford facilities for Students to use the Art Studies in the Educational Museum, it has recently been conducted at the Education Department.

Since its removal to the Department, Art Schools have been established in Hamilton, Kingston, London, and Ottawa; in addition about 100 Branch Art Schools for the study of Industrial Drawing have been established at Mechanics' Institutes, &c. All these institutions are liberally assisted by the Government. Drawing Classes are also conducted during the summer holidays for the training of School Teachers.

Simultaneous examinations are held throughout the whole Province. The examination papers are sent from the Education Department, and the examinations conducted by Presiding Examiners appointed by the Hon. the Minister of Education. At the close of the examinations the papers are returned to the Department to be examined by a Committee from different parts of the Province appointed for that purpose.

The following is a list of the examination papers sent by the Department to 78 Art Schools and Branch Art Schools on the 1st March, 1886:—

GRADE B.

Freehand Drawing from the flat	2,233
Practical Geometry	2,234
Linear Perspective	1,946
Model Drawing	2,067
Memory and Blackboard Drawing	1,869
Total	10,349

GRADE A.

Shading from flat	112
Outline from round	123
Shading from round	109
Drawing from Flowers	91
Advanced Perspective	94
Descriptive Geometry	75
Drawing from Dictation	98
Machine Drawing	49
Building Construction	34
Industrial Design	129
Total	914

Ontario School of Art, Toronto.

FREEHAND DRAWING FROM THE FLAT.

1443. Archer, Miss,	Toronto	..	Freehand Drawing.	1 example.
1444. Barber, E.	ditto	..	ditto	3 ditto
1445. Barrett, A.C.	ditto	..	ditto	2 ditto
1446. Beech, Miss	ditto	..	ditto	1 ditto
1447. Eldery, R. W.	ditto	..	ditto	1 ditto
1448. Freeman, R. J.	ditto	..	ditto	1 ditto
1449. Kilner, E.	ditto	..	ditto	1 ditto
1450. Marsh, Carrie J.	ditto	..	ditto	2 ditto
1451. Smith, J.	ditto	..	ditto	1 ditto
1452. Steele, H.	ditto	..	ditto	6 ditto
1453. Strong, C.	ditto	..	ditto	1 ditto

DRAWING FROM MODELS.

1454. Steele, H., Toronto	..	..	Model Drawing.	2 examples.
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LINEAR PERSPECTIVE.

1455. Freeman, H. F., Toronto	..	Perspective.	3 examples.
1456. Marsh, Carrie J.	ditto	ditto	2 ditto

INDUSTRIAL DESIGNS.

1457. Alexander, W. W., Toronto	..	Flat Surface.	
1458. Banting, Ida M.	ditto	Oil Cloth, Wall Paper.	
1459. Ditto	ditto	Gate, &c.	
1460. Ditto	ditto	Wall Paper.	
1461. Ditto	ditto	Borders, &c.	
1462. Gage, A. H.	ditto	Ornament.	
1463. Howard, A. V.	ditto	Wall Paper, &c.	
1464. Ditto	ditto	Carpet.	
1465. Ditto	ditto	Oil Cloth.	
1466. Ditto	ditto	Dessert Plates.	
1467. Levey, Nellie	ditto	Flat Surface.	
1468. Wright, Sam	ditto	Border, Gate, &c.	
1469. Ditto	ditto	Wall Paper.	
1470. Ditto	ditto	Ceiling.	
1471. Barron, Lizzie H.	ditto	Borders.	
1472. Ditto	ditto	Panel.	
1473. Ditto	ditto	Wall Paper.	
1474. Ditto	ditto	Book Cover.	
1475. Ditto	ditto	Oil Cloths.	
1476. Roberts, E. H.	ditto	Borders, &c.	

DESIGNS FOR PAPER HANGINGS.

Competitions for a Silver Medal, presented by the Ontario Manufacturers' Association.

1477. Alexander, W. W., Toronto	..	Designs for Paper Hangings.	1 example.
1478. Barron, Lizzie H.	ditto	ditto	2 ditto
1479. Douglas, Frank	ditto	ditto	1 ditto
1480. Gregg, E. H.	ditto	ditto	1 ditto
1481. Levey, Nellie	ditto	ditto	2 ditto
1482. Wright, W. Sam (Medallist)	ditto	ditto	3 ditto

MACHINE DRAWING.

1483.	Babington, E.A.,	Toronto	..	Elevation and Plan of Pillow Block.
1484.	Ditto	ditto	..	Front Elevation of 15-in. Swing Lathe.
1485.	Ditto	ditto	..	Detail Drawings of ditto
1486.	Ditto	ditto	..	Detail Drawings of ditto
1487.	Ditto	ditto	..	Perspective Drawing of ditto
1488.	Ditto	ditto	..	Sections of 4-in. Mill Stones.
1489.	Ditto	ditto	..	Details of Carriage.
1490.	Ditto	ditto	..	Vortex Turbine Water Wheel.

ARCHITECTURAL DRAWING.

1491.	Babington, E. A.,	Toronto	..	Architectural Details.
1492.	Ditto	ditto	..	Plans and Elevations of Cottage.
1493.	Ditto	ditto	..	Plans and Elevations of a Brick Dwelling.

SHADING FROM THE FLAT.

1494.	Allan, Kate M.,	Toronto	..	Fruit.
1495.	Dawkins, Edith A.	ditto	..	Greek Border.
1496.	Ditto	ditto	..	Part of Pilaster.
1497.	Holmes, Mrs. C.E. H.	ditto	..	Diana.
1498.	Ditto	ditto	..	Head of Arab.

CHARCOAL FROM LIFE.

1499.	Wright, Sam	..	..	Portrait.
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SHADING FROM ANTIQUE.

1500.	Aikins, L. A.	Toronto	..	Thalia.
1501.	Allan, Kate M.	ditto	..	Venus de Milo.
1502.	Ditto	ditto	..	Diana.
1503.	Ditto	ditto	..	Cupid.
1504.	Banting, Ida M.	ditto	..	Athlete.
1505.	Ditto	ditto	..	Diana and Stag.
1506.	Ditto	ditto	..	Dying Gladiator
1507.	Ditto	ditto	..	Atalanta.
1508.	Barron, Lizzie	ditto	..	Antinous.
1509.	Ditto	ditto	..	Slave.
1510.	Ditto	ditto	..	Jerome.
1511.	Bell Smith, Miss	ditto	..	Venus de Milo.
1512.	Ditto	ditto	..	Athlete.
1513.	Bland, W.	ditto	..	Silenus and Bacchus.
1514.	Ditto	ditto	..	Dying Gladiator (Time Drawing)
1515.	Blumberg, E.	ditto	..	Apollo Belvedere.
1516.	Ditto	ditto	..	Silenus.
1517.	Bridgen, F.	ditto	..	Diomedes.
1518.	Dawkins, Edith A.	ditto	..	Isis.
1519.	Fairecloth, Mina	ditto	..	Gladiator.
1520.	Ditto	ditto	..	Niobe.
1521.	Ditto	ditto	..	Isis.
1522.	Ditto	ditto	..	Thalia.
1523.	Howard, A. V.	ditto	..	Jason.
1524.	Ditto	ditto	..	Venus de Milo.
1525.	Ditto	ditto	..	Dying Gladiator (Time Drawing)
1526.	Holmes, Mrs. C.E. H.	ditto	..	Diana.
1527.	Levey, Nellie	ditto	..	Thalia.
1528.	McClung, Maggie	ditto	..	Thalia.
1529.	Ditto	ditto	..	Jason.

SHADING FROM ANTIQUE—*continued.*

1530.	Pearson, Edith	Toronto	..	Thalia.
1531.	Roberts, Edith M.	ditto	..	Diomedes.
1532.	Ditto	ditto	..	Thalia.
1533.	Ditto	ditto	..	Isis.
1534.	Wright, Sam	ditto	..	Jason.
1535.	Ditto	ditto	..	Fighting Gladiator.
1536.	Ditto	ditto	..	Silenus and Bacchus.
1537.	Wilson, Eliza	ditto	..	Thalia.

OIL PAINTINGS.

1538.	Delaporte, Lizzie,	Toronto	..	Fruit.
1539.	Ditto	ditto	..	Cup and Saucer.
1540.	Hughes, Maude	ditto	..	Basket of Eggs.

CHASING IN BRASS.

1541.	Young, Miss,	Toronto	..	Salver.
1542.	Ditto	ditto	..	Portrait.

REPOUSSE WORK.

1543.	Young, Miss,	Toronto	..	Brass Salver.
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SCULPTURE IN MARBLE.

1544.	McIntosh, J.,	Toronto	..	Madonna and Child.
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ELECTRO-METALLURGY.

1545.	Collection of reproductions of Plaster Casts, also Electrotypes from Nature.			
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MODELLING IN CLAY AND PLASTER CASTS FROM CLAY.

1546.	Barrett, A. C.	Toronto	..	Clytie.
1547.	Barnett, Mrs.	ditto	..	Dog's Head.
1548.	Delaporte, Lizzie	ditto	..	Laocoon (head).
1549.	Ditto	ditto	..	Madonna.
1550.	Gibson, Miss	ditto	..	Laocoon (head).
1551.	Ditto	ditto	..	Hollyhock.
1552.	Gillis, J. M.	ditto	..	Madonna.
1553.	Hardy, A. M.	ditto	..	Blackberries.
1554.	Ditto.	ditto	..	Lion's Head.
1555.	Hughes, Maude	ditto	..	Hop Plant.
1556.	Ditto	ditto	..	Water Lily.
1557.	Ditto	ditto	..	Begonia.
1558.	Ditto	ditto	..	Convolvulus.
1559.	Ditto	ditto	..	Diana.
1560.	Hamilton, C. A.	ditto	..	Portrait.
1561.	Ditto	ditto	..	Vestal.
1562.	Hamilton, H.	ditto	..	Pears.
1563.	McIntosh, J.	ditto	..	Water Lily.
1564.	McIntosh, Peter	ditto	..	Clytie (Mask).
1565.	Ditto	ditto	..	Holly Leaves.
1566.	Ditto	ditto	..	Beans.
1567.	Payne, J. A. E.	ditto	..	Model of foot.
1568.	Ditto	ditto	..	Portrait from Life
1569.	Ditto	ditto	..	Madonna.
1570.	Peel, Clara	ditto	..	Bust from life.

MODELLING IN CLAY AND PLASTER CASTS FROM CLAY—*continued.*

1571.	Smith, R. J.	Toronto	..	Dog's Head.
1572.	Ditto	ditto	..	Laocoon (mask).
1573.	Ditto	ditto	..	Blackberries.
1574.	Smith, W.	ditto	..	Jerome (mask).
1575.	Spink, C.	ditto	..	Dog's Head.
1576.	Welch, Arthur	ditto	..	Lion's Head.
1577.	Ditto	ditto	..	Horse's Head.

CARVING IN WOOD.

1578.	Clock and Bracket.	1581.	Group of Fishes.
1579.	Group of Game, large.	1582.	Match Box.
1580.	Group of Game, small.		

Western School of Art, *London.*

1583. Specimens of Examination Papers in Grades A. and B.

MACHINE DRAWING, &C.

1584.	Robertson, W.,	London	..	Pillar Block.
1585.	Ditto	ditto	..	Sheet Metal Rolling Machine.
1586.	Ditto	ditto	..	Design for a Governor.
1587.	Ditto	ditto	..	Horizontal Steam Engine.
1588.	Ditto	ditto	..	Plan and details of Knitting Machine.
1589.	Ditto	ditto	..	ditto ditto
1590.	Ditto	ditto	..	Parts of Railway Car.
1591.	Ditto	ditto	..	Spur Wheel.
1592.	Ditto	ditto	..	Lamp and Lamp Posts.
1593.	Ditto	ditto	..	Architectural Details.

INDUSTRIAL DESIGNS. (ORIGINAL.)

1594.	Bland, R.	London	..	Panel for Wood Carving.
1595.	Ditto	ditto	..	Cornice for Wood Carving.
1596.	Ditto	ditto	..	Base Board and Frieze Wood Carving.
1597.	Ditto	ditto	..	Centre and Spandrel for Ceiling.
1598.	Henry, F.	ditto	..	Pen and Ink Design for Sideboard.
1599.	Mitchell, Miss J.	ditto	..	Stained Glass Window.
1600.	Ditto	ditto	..	Wall Paper.
1601.	Ditto	ditto	..	Floor Cloth.
1602.	Ditto	ditto	..	Book Cover.
1603.	Robertson, W.	ditto	..	Industrial Design.
1604.	Ditto	ditto	..	ditto ditto

SHADING FROM CASTS.

1605.	Anundson, George,	London	..	Figure of Christ.
1606.	Owen, Mrs.	ditto	..	Partridges in the Wheat.
1607.	Ditto	ditto	..	Water Lily.

CRAYON DRAWINGS FROM THE FLAT.

1608.	Babb, E.	London	..	Head.
1609.	Ditto	ditto	..	Lion's Head.
1610.	Boyle, M.	ditto	..	Landscape.
1611.	Gunn, E. M.	ditto	..	Dignity and Impudence.
1612.	Johnston, A.	ditto	..	Head.
1613.	Johnston, Mrs. A. C.	ditto	..	Landscape.

CRAYON DRAWINGS FROM THE FLAT—*continued.*

1614. Maclin, Miss	London	..	Figure.
1615. Mitchell, J.	ditto	..	Head.
1616. Neilson, Miss	ditto	..	Head.
1617. Ditto	ditto	..	Head.
1618. Sharman, Miss	ditto	..	Head.

PEN AND INK DRAWING.

1619. Henry, Fred.	London	..	View in Muskoka.
1620. Johnston, Mrs. A. C.	ditto	..	Drawing.

OIL PAINTING.

1621. Davidson, S. K.	London	..	Copy after Le Bas.
1622. Griffiths, J. H.	ditto	..	Flowers.
1623. Gunn, E. M.	ditto	..	Dead Game.
1624. Hendershott, B.	ditto	..	Flowers.
1625. Johnston, Mrs. A. C.	ditto	..	Landscape.
1626. Ditto	ditto	..	Monochrome.
1627. Ditto	ditto	..	Still Life.

WATER COLOURS.

1628. Chapman, Chas.	London	..	An Old Sawmill.
1629. Ditto	ditto	..	The Path through the Woods.
1630. Ditto	ditto	..	The Trees in October.
1631. Johnston, Mrs. A. C.	ditto	..	Landscape.
1632. MacDonald, Miss	ditto	..	Cactus.
1633. Mitchell, Ida	ditto	..	Canadian Landscape.

MODELS IN CLAY AND PLASTER.

Models in Clay.

1634. Bland, Richard	London	..	Spandrel.
1635. Ditto	ditto	..	Ditto.
1636. Ditto	ditto	..	Boy's Head.
1637. Boyle, Miss	ditto	..	Flowers, Plaque.
1638. Ditto	ditto	..	Fruit ditto.
1639. Ditto	ditto	..	Ivy ditto.
1640. Ditto	ditto	..	Ornament.
1641. Brierley, Miss	ditto	..	Camel.
1642. Ditto	ditto	..	Ornaments.
1643. Buckle, Miss	ditto	..	Bracket, Head.
1644. Ditto	ditto	..	Plaque, Birds.
1645. Gunn, Miss	ditto	..	ditto Head.
1646. Hendershott, Miss	ditto	..	ditto Bird.
1647. Ditto	ditto	..	ditto Dog.
1648. Johnston, Ada	ditto	..	ditto Dog.
1649. Ditto	ditto	..	ditto Wolf's Head.
1650. Johnston, Mrs.	ditto	..	ditto Corn and Poppies.
1651. Ditto	ditto	..	ditto Roses.
1652. Peel, Clara	ditto	..	Bracket, Head.
1653. Ditto	ditto	..	ditto.
1654. Macdonald, Miss	ditto	..	Lion's Head.
1655. Mitchell, Ida	ditto	..	ditto.

Models in Plaster.

1656. Anundson, Geo.	ditto	..	Feeding Pigeons.
1657. Ditto	ditto	..	Madonna.
1658. Buckle, Miss	ditto	..	Apollo.

MODELS IN CLAY AND PLASTER—*continued.*

1659.	Mitchell, Ida,	London	..	..	Water Lily.
1660.	Ditto	ditto	..	..	Apollo.
1661.	Ditto	ditto	..	..	Diana.
1662.	Peel, Clara	ditto	..	..	Bust from Life.
1663.	Reid, Arthur	ditto	..	..	Bust.
1664.	Ditto	ditto	..	..	Duck.
1665.	Ditto	ditto	..	..	Figure of Christ.

PAINTING ON CHINA.

1666.	Griffiths, J. H.,	London	..	..	Plaque, Fruit.
1667.	Ditto	ditto	..	..	ditto Hollyhocks.
1668.	Ditto	ditto	..	..	ditto Holly, &c.
1669.	Ditto	ditto	..	..	ditto Landscape.
1670.	Ditto	ditto	..	..	ditto Marine View.
1671.	Ditto	ditto	..	..	ditto Peach Blossom.
1672.	Ditto	ditto	..	..	ditto Roses.
1673.	Ditto	ditto	..	..	Dinner Plate, Convolvulus.
1674.	Ditto	ditto	..	..	ditto English Robin.
1675.	Ditto	ditto	..	..	ditto Grapes.
1676.	Ditto	ditto	..	..	Five o'clock Tray, Roses.
1677.	Ditto	ditto	..	..	Vase, with blue ground.
1678.	Macdonald, Miss	ditto	..	..	Plaque, Dogs.
1679.	Ditto	ditto	..	..	Palette, Fox.
1680.	Ditto	ditto	..	..	Flowers.
1681.	Neilson, Miss	ditto	..	..	Plaque, Flowers.
1682.	Ditto	ditto	..	..	ditto Wild Roses.
1683.	Ditto	ditto	..	..	Tea-cup and Saucer.
1684.	Ditto	ditto	..	..	ditto.
1685.	Ditto	ditto	..	..	Vase, Apple Blossoms.
1686.	Priddis, Miss	ditto	..	..	Tea-cup and Saucer, Flowers.
1687.	Ditto	ditto	..	..	ditto ditto.
1688.	Ditto	ditto	..	..	ditto ditto.
1689.	Ditto	ditto	..	..	ditto ditto.
1690.	Ditto	ditto	..	..	ditto ditto.
1691.	Ditto	ditto	..	..	ditto ditto.
1692.	Ditto	ditto	..	..	Tea Plate, Flowers.
1693.	Ditto	ditto	..	..	ditto.
1694.	Ditto	ditto	..	..	ditto.
1695.	Ditto	ditto	..	..	ditto.
1696.	Ditto	ditto	..	..	ditto.
1697.	Ditto	ditto	..	..	ditto.
1698.	Proudfoot, Miss	ditto	..	..	Plaque, in Velvet Frame.
1699.	Ditto	ditto	..	..	ditto Flowers.
1700.	Ditto	ditto	..	..	ditto Birds.
1701.	Ditto	ditto	..	..	Tile, Bird.
1702.	Screaton, Mrs.	ditto	..	..	Cream Jug, Flowers.
1703.	Ditto	ditto	..	..	Plaque, Deer.
1704.	Ditto	ditto	..	..	ditto Bird's Nest.
1705.	Ditto	ditto	..	..	Plate, Flowers.
1706.	Ditto	ditto	..	..	ditto
1707.	Ditto	ditto	..	..	ditto
1708.	Ditto	ditto	..	..	ditto
1709.	Ditto	ditto	..	..	ditto
1710.	Ditto	ditto	..	..	ditto
1711.	Ditto	ditto	..	..	ditto
1712.	Ditto	ditto	..	..	ditto
1713.	Ditto	ditto	..	..	Sugar Box, Flowers.
1714.	Ditto	ditto	..	..	Tea Cup and Saucer.
1715.	Ditto	ditto	..	..	ditto
1716.	Ditto	ditto	..	..	ditto

PAINTING ON CHINA—*continued.*

1717.	Screaton, Mrs.,	London	..	Tea Cup and Saucer.
1718.	Ditto	ditto	...	Tea Pot, Flowers.
1719.	Ditto	ditto	..	Tea Pot Stand, Flowers.
1720.	Struthers, Mrs.	ditto	..	China Basket.
1721.	Ditto	ditto	..	Plate, Wild Roses.
1722.	Ditto	ditto	..	Vase, Festoons, Flowers.
1723.	Wood, Miss	ditto	..	Berry Dish.
1724.	Ditto	ditto	..	Berry Saucer.
1725.	Ditto	ditto	..	ditto
1726.	Ditto	ditto	..	ditto
1727.	Ditto	ditto	..	ditto
1728.	Ditto	ditto	..	ditto
1729.	Ditto	ditto	..	ditto
1730.	Ditto	ditto	..	ditto
1731.	Ditto	ditto	..	ditto
1732.	Ditto	ditto	..	ditto
1733.	Ditto	ditto	..	ditto
1734.	Ditto	ditto	..	ditto
1735.	Ditto	ditto	..	ditto
1736.	Ditto	ditto	..	Bomb Vase.
1737.	Ditto	ditto	..	ditto
1738.	Ditto	ditto	..	Embossed Plate.
1739.	Ditto	ditto	..	ditto
1740.	Ditto	ditto	..	ditto
1741.	Ditto	ditto	..	Plate, with Bird.
1742.	Ditto	ditto	..	ditto Roses.

Art School, Ottawa.

1743. Specimens of Examination Papers in Grades A and B.
 1744. Belford, E., Ottawa Freehand Drawing.

GEOMETRY.

1745. Edey, M. C., Ottawa Mechanics' Practical Geometry.
 9 diagrams.

PERSPECTIVE.

1746. Edey, M. C., Ottawa Practical Perspective Diagrams.
 9 diagrams.

MECHANICAL DRAWING.

1747. Ballantyne, N., Ottawa.. .. Section of Steam Engine.
 1748. Ditto ditto ditto Cylinder.
 1749. Mather, A. G., ditto Marine Engine.

ORIGINAL INDUSTRIAL DESIGNS.

1750. Ballantyne, Norman, Ottawa .. Brass Ornament
 1751. Barrett, T. H. ditto .. Carpet.
 1752. Crouch, R. H. ditto .. Book Cover.
 1753. Ditto ditto .. Mosaic Floor.
 1754. Ditto ditto .. Wall Decoration.
 1755. Gibson, J. H. P. ditto .. Wall Paper.
 1756. Ditto ditto .. Hearth Rug.
 1757. Ditto ditto .. Mosaic Floor.
 1758. Ditto ditto .. Carpet.
 1759. Harris, R. P. ditto .. ditto
 1760. Living, M. ditto .. ditto
 1761. Macpherson, E. ditto .. Fence.
 1762. Mellor, M. S. ditto .. Fire Screen.

ORIGINAL INDUSTRIAL DESIGNS—*continued.*

1763. McQuarrie, J. E.,	Ottawa	..	Embroidery.
1764. Vernon, J. W. D.	ditto	..	Wall Paper.
1765. Worsley, J.	ditto	..	Frieze for Paper.
1766. White, J.	ditto	..	Embroidered Silk Coverlet.
1767. Wills, T.	ditto	..	Carpet.
1768. Worsley, J.	ditto	..	Ceiling.
1769. Lampman, Carrie	ditto	..	Screen.

INDUSTRIAL DESIGNS.

Competitions for Silver Medal offered by the Ontario Manufacturers' Association.

1770. Crouch, R. W.,	Ottawa	..	Wrought-iron Fence.
1771. Edey, M. C.	ditto	..	ditto
1772. Gibson, J. H. P.	ditto	..	ditto
1773. Ditto	ditto	..	ditto
1774. Harris, R. W.	ditto	..	ditto
1775. Living, Marion	ditto	..	ditto
1776. Macpherson, E.	ditto	..	ditto
1777. Vernon, J. W. D.	ditto	..	ditto
1778. Wills, Tilly	ditto	..	ditto

The following collection of Designs, &c., were exhibited at the recent Antwerp Exhibition, and awarded Honourable Mention.

1779. Brown, A.,	Ottawa	..	China Tea Service.
1780. Ditto	ditto	..	ditto.
1781. Ditto	ditto	..	Lace Coverlet.
1782. Edey, M. C.	ditto	..	Encaustic Tiles.
1783. Henderson, J.	ditto	..	ditto.
1784. Harwood, Mr.	ditto	..	Book Cover.
1785. Ditto	ditto	..	Epergne, Vase and Fruit Dish.
1786. Mills, Mr.	ditto	..	Book Cover.
1787. Ridout, J.	ditto	..	Lace Coverlet.
1788. Ditto	ditto	..	Carpet.
1789. Smith	ditto	..	Oil Cloth.
1790. Ditto	ditto	..	Encaustic Tiles.
1791. Ditto	ditto	..	Mosaic Floor.
1792. Stevens, J.	ditto	..	Brass Plaque.
1793. Stalker, G.	ditto	..	Facade of Theatre.
1794. Ditto	ditto	..	Wall Paper.
1795. Ditto	ditto	..	Sideboard Table and Mantel.

MISCELLANEOUS.

1796. Edey, M. C.,	Ottawa	..	Freehand Drawing.
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SHADING FROM THE "ROUND."

1797. Ballantyne, Miss,	Ottawa	..	Faun.
1798. Belford, E.	ditto	..	Portrait Bust.
1799. Chesley, Lenah	ditto	..	Theseus.
1800. Ditto	ditto	..	Dancing Faun.
1801. Ditto	ditto	..	Lion.
1802. Frechette, A.	ditto	..	Gibson's Venus.
1803. Lampman, Carrie	ditto	..	Minerva.
1804. Ditto	ditto	..	Gibson's Venus.
1805. Ditto	ditto	..	Voltaire.
1806. Ditto	ditto	..	Venus de Milo.
1807. Mills, Miss	ditto	..	Voltaire.

LIFE STUDIES.

1808.	Bristow, A.	Ottawa	..	Life Study, nude.	
1809.	Checkley, F. S.	ditto	..	Life Study Sketch, draped.	
1810.	Ditto	ditto	..	ditto	ditto
1811.	Ditto	ditto	..	ditto	ditto
1812.	Ditto	ditto	..	ditto	ditto
1813.	Ditto	ditto	..	ditto	ditto
1814.	Ditto	ditto	..	Life Study, nude.	
1815.	Frechette, A.	ditto	..	ditto	ditto
1816.	Ditto	ditto	..	ditto	draped.
1817.	Taylor, L. ..	ditto	..	ditto	ditto
1818.	Watts, J. W. H.	ditto	..	ditto	ditto
1819.	Ditto	ditto	..	ditto	nude
1820.	Ditto	ditto	..	ditto	ditto

WATER COLOURS.

1821.	Belford, E.	Ottawa	..	Still Life—Celery.	
1822.	Ditto	ditto	..	ditto	Shells, &c.
1823.	Blythe, Miss	ditto	..	Landscape from Nature.	
1824.	Ditto	ditto	..	View near Ottawa.	
1825.	Ditto	ditto	..	Bridge at Almonte.	
1826.	Ditto	ditto	..	Still Life—Shells.	
1827.	Ditto	ditto	..	ditto	Peacock's Feathers.

OIL PAINTINGS.

1828.	Ballantyne, May	Ottawa	..	Life, draped.	
1829.	Ditto	ditto	..	ditto	
1830.	Ditto	ditto	..	ditto	
1831.	Ditto	ditto	..	Monochrome from Cast.	
1832.	Ditto	ditto	..	Life, draped.	
1833.	Ditto	ditto	..	ditto	
1834.	Barry, Lily	ditto	..	Still Life—Vase, &c.	
1835.	McQuarrie, Isabella	ditto	..	ditto	Fruit.
1836.	Ditto	ditto	..	ditto	School Bag, &c.
1837.	Smith, Miss	ditto	..	ditto	Candlestick, &c.

Art School, Kingston.

1838. Specimens of Examination Papers in Grades A and B.

PERSPECTIVE.

1839.	Wrenshall, C. A.,	Kingston	..	Angular Perspective.	
1840.	Ditto	ditto	..	Ditto	ditto
1841.	Ditto	ditto	..	Oblique	ditto
1842.	Ditto	ditto	..	Orthographic Projection.	

ARCHITECTURAL DRAWING.

1843.	Poor, H. W.	Kingston	..	Buildings from measurement.	
1844.	Wrenshall, C. A.	ditto	..	Designs for a House.	

MECHANICAL DRAWING.

1845.	Poor, H. W.	Kingston	..	Portable Steam Engine.	
1846.	Ditto	ditto	..	Projection of Screws.	
1847.	Ditto	ditto	..	Projection of Shadows.	
1848.	Ditto	ditto	..	Topographical Drawing.	
1849.	Wrenshall, C. A.	ditto	..	Power Pump.	

ORIGINAL DESIGNS FOR INDUSTRIAL USES.

1850. Breden, Miss	Kingston	Ceiling.
1851. Carey, Miss	ditto	Tile Floor.
1852. Ferguson, E.	ditto	Curtain.
1853. Henderson, H. B.	ditto	Hanging Lamp.
1854. Macdonald, Mrs. A.	ditto	Tile Floor.
1855. Power, Mrs. E. A.	ditto	Tile Memorial for a Church.
1856. Ditto	ditto	Inlaid Wooden Floor.
1857. Ditto	ditto	Wood Veneer Floor.
1858. Ditto	ditto	Mantels.
1859. Richmond, L.	ditto	Ceiling.
1860. Shaw, Jenny	ditto	Oil Cloth.
1861. Smith, H.	ditto	Ceiling.
1862. Wrenshall, C. E.	ditto	Wall Paper.
1863. Ditto	ditto	Oil Cloth.
1864. Ditto	ditto	Wood Floor in Natural Woods.
1865. Fraser, Helen	ditto	Wall Paper.

DESIGNS FOR OIL CLOTH.

Competitions for a Silver Medal presented by the Ontario Manufacturers' Association.

1866. Breden, Hannah F.	1873. Power, Mrs. E. A.
1867. Carey, Mabel M.	1874. Powell, May.
1868. Ferguson, E. H.	1875. Richmond, L. M.
1869. Fraser, Helen.	1876. Smith, H.
1870. Gildersleeve, A. M.	1877. Shaw, Jennie, C.
1871. McDonald, A. C.	1878. Wrenshall, Charles E.
1872. Power, Mrs. E. A. (prizemedal).	

SHADING FROM THE FLAT.

1879. Emmens, C. J.	Kingston	Shading from Copy.
1880. Wrenshall, C. E.	ditto	ditto.

ANATOMICAL FIGURES.

1881. Emmens, C. E.,	Kingston	Skeleton.
1882. Ditto	ditto	Muscles.

OUTLINE FROM THE ROUND.

1883. Power, Mrs. E. A.,	Kingston	Venus.
1884. Wrenshall, C. E.	ditto	Gladiator.
1885. Ditto	ditto	Venus.

SHADING FROM THE ROUND.

1886. Power, Mrs. E. A.,	Kingston	Diana.
1887. Ditto	ditto	Gladiator.
1888. Ditto	ditto	Hand.
1889. Ditto	ditto	Eye.
1890. Wrenshall, C. E.	ditto	Clytie.
1891. Ditto	ditto	Gladiator.
1892. Ditto	ditto	Head, Antique.

SHADING.—STILL LIFE.

1893. Power, Mrs. E. A.,	Kingston	Bottle and Book.
1894. Ditto	ditto	Crock, &c.
1895. Ditto	ditto	Hare.
1896. Ditto	ditto	Vase and Fan.

FLOWER DRAWING.

1897. Power, Mrs. E. A., Kingston .. Flowers from Nature.

WATER COLOURS.

1898.	Ferguson, E.	Kingston	..	Still Life—Vase, Bottle, &c.
1899.	Ditto	ditto	..	ditto Fleur-de-Lis.
1900.	Ditto	ditto	..	Hare, from Nature.
1901.	Ditto	ditto	..	Landscape, from Nature.
1902.	Ditto	ditto	..	ditto
1903.	Ditto	ditto	..	ditto
1904.	Fraser, Ella	ditto	..	Still Life—Bottle and Lemons.
1905.	Ditto	ditto	..	ditto Candlestick.
1906.	Ditto	ditto	..	ditto Drapery, Vase, &c.
1907.	Power, Mrs. E. A.	ditto	..	ditto After the Opera.
1908.	Ditto	ditto	..	ditto Bottle, Vase, &c.
1909.	Ditto	ditto	..	ditto Lantern, Basket, &c.
1910.	Ditto	ditto	..	Sunset.
1911.	Ditto	ditto	..	A View from Kingston Mills.
1912.	Ditto	ditto	..	A Hilly Road.
1913.	Ditto	ditto	..	Sketch of Trees.
1914.	Wrenshall, C.	ditto	..	Marine View—Isle au Haut.
1915.	Ditto	ditto	..	Marine View—Off Boston Harbour.
1916.	Ditto	ditto	..	Study of Rocks.
1917.	Ditto	ditto	..	Still Life—Books.

OIL PAINTING.

1918.	Bermingham, Rose,	Kingston		Still Life—Hollyhocks.
1919.	Ditto	ditto	..	ditto Pansies.
1920.	Brophy, Maggie	ditto	..	ditto Bulrushes.
1921.	Carruthers, Maud	ditto	..	ditto Apple Blossoms.
1922.	Ditto	ditto	..	ditto Chrysanthemums.
1923.	Ditto	ditto	..	ditto Hollyhocks.
1924.	Emmens, C. J.	ditto	..	ditto Bananas and Glass.
1925.	Ditto	ditto	..	ditto Bottle and Oranges.
1926.	Ditto	ditto	..	ditto Pine Apple.
1927.	Macdonald, Mrs. A.	ditto	..	ditto Bottle, Lemons, &c.
1928.	Power, Mrs. E. A.	ditto	..	ditto Thistles.
1929.	Shaw, Jenny	ditto	..	ditto Pinks.
1930.	Ditto	ditto	..	ditto Opera Glass, Fan, &c.
1931.	Spangenberg, Edith	ditto	..	ditto Books, Vase, and Card Case.

PART IV.

INSTITUTIONS FOR THE BLIND AND DEAF AND DUMB.

Ontario Institution for the Education of the Blind, *Brantford.*

Established by the Ontario Government, 1872.

This Institution provides Free Board and Education to all young residents in the Province of Ontario not physically or mentally incapacitated for receiving instruction, between the ages of 7 and 21 years, who by reason of Blindness or Impartial Vision are incapable of being educated at the Public Schools.

HISTORICAL AND STATISTICAL.

- 1932. Chart explaining the History and Statistics of the Institute.
- 1933. Form of Application.
- 1934. Bye-laws.
- 1935. Rules and Regulations.
- 1936. Where it is; What it is; and What it does.
- 1937. Annual Reports, 1882-3-4-5.

PHOTOGRAPHS.

- | | |
|-------------------------------------|----------------------------|
| 1938. View of Building and Grounds. | 1941. The Knitting Class. |
| 1939. A Piano Lesson. | 1942. The Sewing Class. |
| 1940. A Tuning Lesson. | 1943. The Willow Workshop. |

APPLIANCES FOR TEACHING.

Reading and Writing :—

- | | |
|-----------------------------------|-------------------------------------|
| 1944. Point Print Slate. | 1947. Embossed Book in Point Print. |
| 1945. Embossed Book in Line Type. | 1948. Grooved Writing Cards. |
| 1946. Embossed Book in Point. | |

Physiology and Natural History :—

- | | |
|-------------------------------|----------------------------|
| 1949. Cast of Human Leg. | 1952. Stuffed Prairie Hen. |
| 1950. Stuffed Pouched Gopher. | 1953. Ditto Grackle. |
| 1951. Ditto Ground Hog. | 1954. Ditto Black Bass. |

WILLOW WORK MODELS.

- 1955. Sectional Chair Model, with chair frame.
- 1956. Sectional Trunk Cover Basket Model.
- 1957. Sectional Trunk Cover Basket, with basket in progress.
- 1958. Office Basket Model.

PUPILS' WORK.

Reading and Writing :—

- 1959. Embossed Book transcribed in Point Print.
- 1960. Specimens of Writing, with Grooved Cards.

WILLOW WORK.

- | | |
|----------------------------------|--|
| 1961. Rattan Chair (Rocking). | 1969. Office Basket. |
| 1962. Bedroom Basket. | 1970. Square Reticules (three). |
| 1963. Clothes Basket (Covered). | 1971. Trunk Cover Baskets (six as srtd.) |
| 1964. Baby Linen Basket. | 1972. Cap Baskets (two). |
| 1965. Fruit Stand. | 1973. Square Market Baskets (two). |
| 1966. Market Baskets (one nest). | 1974. Brown Market Basket. |
| 1967. Small Work Baskets (two). | 1975. Toy Cradle. |
| 1968. Lunch Basket. | |

CROCHET WORK.

- | | |
|-------------------------------|------------------|
| 1976. Child's Jacket. | 1980. Cord Tidy. |
| 1977. Bootees (1 pair). | 1981. Scarf. |
| 1978. Hood. | 1982. Cape. |
| 1979. Cord Mats (set of six). | |

BEAD WORK.

- | | |
|------------------------------------|---------------------|
| 1983. Tea Set and Tray (7 pieces). | 1986. Small Basket. |
| 1984. Watch Pocket. | 1987. Candlestick. |
| 1985. Card Basket. | 1988. Mug. |

MACHINE AND HAND SEWING.

- | | |
|----------------------------|-----------------------------------|
| 1989. Shirt Case, quilted. | 1992. Pillow Shams (two). |
| 1990. Shirt. | 1993. Pocket Handkerchiefs (two). |
| 1991. Apron. | |

MACHINE KNITTED GOODS.

- | | |
|----------------------------------|-----------------------------------|
| 1994. Lady's Stockings (1 pair). | 1996. Gentlemen's Socks (2 pair). |
| 1995. Ditto Gaiters (1 pair). | 1997. Toboggan Tuque. |

HAND KNITTING.

- | | |
|--------------------------------------|---------------------------|
| 1998. Man's Socks (1 pair). | 2001. Bootees (1 pair). |
| 1999. Lady's Fancy Mittens (1 pair). | 2002. Pudding Dish Cover. |
| 2000. Skirt. | 2003. Mat. |

Ontario Institution for the Education of the Deaf and Dumb, *Belleville.*

Established by the Ontario Government, 1870.

HISTORICAL AND STATISTICAL.

Statistical Chart on Trophy.

2004. Annual Reports, 1883-4-5.

PHOTOGRAPHS.

- | | |
|--|------------------------------------|
| 2005. Deaf and Dumb Institution. | 2009. Pantomime Club. |
| 2006. Deaf and Dumb Institution with Pupils. | 2010. Ditto ditto. |
| 2007. Boys learning Shoemaking. | 2011. Superintendent and Officers. |
| 2008. Football Club. | 2012. Superintendent's Residence. |

TEXT BOOKS.

Readers :—

- 2013. Keep's First Lessons for Deaf and Dumb.
- 2014. Latham's Primary Reader for Deaf Mutes.
- 2015. Keep's School Stories with Questions.
- 2016. Peet's Language Lessons.
- 2017. Campbell's new Language Lessons.
- 2018. Byrne's Picture Teaching for Old and Young.
- 2019. The Raindrop, Elementary Reading for Young People.

Arithmetic :—

- 2020. MacVicar's Primary Arithmetic.
- 2021. Kirkland and Scott's Elementary Arithmetic.
- 2022. McLellan's Mental Arithmetic, Part I.
- 2023. Barton's Language Lessons in Arithmetic.

History :—

- 2024. Coleman's Easy Lessons on Canadian History.
- 2025. Edith Thompson's History of England.

Geography :—

- 2026. Lovell's Intermediate Geography.

Natural Philosophy :—

- 2027. Parker's First Lessons in Natural Philosophy.

Religious Instruction :—

- 2028. Peep of Day.—Religious Instruction for the Infant Mind.
- 2029. Peet's Scripture Lessons for the Young.

PUPILS' WORK.—CRAYON DRAWINGS.

- 2030. Portrait, Lord Lansdowne.
- 2031. Herault, N. L. Circassian Slave.
- 2032. McLaren, A. J. Dog and Woodcock.
- 2033. Marchand, E. Dog's Head.
- 2034. Cook, Jos. R. Dignity and Impudence.
- 2035. Couse, J. A. Dog, after Landseer.
- 2036. Ferault, N. L. Neapolitan Boy.
- 2037. Marchand, E. Stag-hound's Head.
- 2038. Swift, Eva Stag at Bay.
- 2039. Haddon, Jas. The Gleaner.

PART V.

COLLEGES OF AGRICULTURE, VETERINARY SCIENCE, &c.

Ontario Agricultural College and Experimental Farm, *Guelph.*

Established by the Ontario Government, 1874.

GEOLOGY.

SPECIMENS ILLUSTRATING THE GEOLOGY OF THE PROVINCE OF ONTARIO, USED FOR TEACHING PURPOSES.

The study of Geology in this college is not only to impart a scientific knowledge of the structure of the earth and the classification of rocks, but the student is taught the relation of Geology to Agriculture, to understand the nature and fertility of the various kinds of soils, their derivation and relation to sub-soils, also the advantage of soils so as to produce mineral manures, &c.

LAURENTIAN.

The Laurentian rocks are so called because they are largely developed in Canada, north of the river St. Lawrence. The lower Laurentian Group is sometimes about 20,000 feet thick, and the upper Laurentian about 10,000 thick.

- 2040. (1). Tourmaline Crystals, Grenville.
- 2041. (2). Hornblende Crystals, Renfrew.
- 2042. (3). Gneiss, Muskoka.
- 2043. (4). Granite, Lake of Woods.
- 2044. (5). Tourmaline.
- 2045. (6). Eozoon Canadense, Lanark County.
- 2046. (7). Apatite (Red Phosphate), Hastings County.
- 2047. (8a). Apatite (Green), Hastings County.
- 2048. (8b). Apatite (Crystal) " "
- 2049. (9). Apatite (Mixture of Red and Green), Hastings County
- 2050. (10). Galena.
- 2051. (11). Galena (Lead Ore).
- 2052. (12). Graphite (Black Lead).
- 2053. (13). Syenite.
- 2054. (14). Limestone (Crystalline), Madoc.
- 2055. (15). Mispickel (Arsenic Ore).
- 2056. (16). Molybdenite.
- 2057. (17). Wollastonite.
- 2058. (18). Pyrite.
- 2059. (19). Pyrite (cub. crystals).
- 2060. (20). Pyrite (nodule).

. The numbers in parenthesis correspond with the numbers on the Specimens.

LAURENTIAN--continued.

2061. (21). Hematite (Iron Ore).
 2062. (22). Hematite (Iron Ore).
 2063. (23). Magnetite (Magnetic Iron Ore).
 2064. (24). Limonite (Brown Iron Ore).
 2065. (25). Limonite.
 2066. (26). Mica (Crystals).
 2067. (27). Mica (Common).
 2068. (28). Peristerite.

Bathurst.

HURONIAN.

The name of *Huronian* is given to a series of rocks about 18,000 feet in thickness, according to Logan, on the borders of Lakes Huron and Superior, and in the Lake of the Woods region. No fossils have been discovered in this series; and it is now classed as pre-Cambrian or Archean. Similar crystalline rocks occupy large areas in Quebec, New Brunswick, and Nova Scotia.

2069. (29). Conglomerate.
 2070. (30). Quartzite.
 2071. (31). Mica Schist.
 2072. (32). Amethyst.
 2073. (33). Amethyst.
 2074. (34). Amethyst (large Crystal).
 2075. (35). Geode (containing Crystals).
 2076. (36). Galena (bearing Silver).
 2077. (37). Jasper.
 2078. (38). Calcite.
 2079. (39). Calcite (Crystals).
 2080. (40). Quartz (Crystals).
 2081. (41). Baryta.
 2082. (42). Prehnite.
 2083. (43). Argellite.
 2084. (44). Mica Schist (containing Copper).
 2085. (45). Native Copper.
 2086. (46). Native Copper.
 2087. (47). Azurite (Blue Carbonate of Copper).
 2088. (48). Malachite (Green Carbonate of Copper).
 2089. (49). Malachite (Green Carbonate of Copper).
 2090. (50). Malachite (Green Carbonate of Copper).
 2091. (51). Chalcopyrite (Copper Sulphide).
 2092. (52). Chalcopyrite (Copper Sulphide).
 2093. (53). Chalcopyrite (Copper Sulphide).
 2094. (54). Chalcopyrite (Copper Sulphide).
 2095. (55). Erubescite (Purple Copper Ore).

Bruce Mines, Ontario.

ditto

ditto

ditto

CAMBRIAN.

This series is represented in North America by the Mevevian, Potsdam, and calciferous Levis formations.

2096. (56). *Lingula acuminata*. Potsdam.
 2097. (57). *Lingula acuminata*. ditto
 2098. (58). *Lingula acuminata*. ditto
 2099. (59). *Lingula acuminata*. ditto
 2100. (60). *Archæocyathus profundus*. ditto
 2101. (61). *Salterella obtusa*. ditto
 2102. (62). *Scolithus linearis*. ditto
 2103. (63). Fucoids. ditto

The numbers in parenthesis correspond with the numbers on the Specimens.

CAMBRO-SILURIAN.

2104. (64).	Asophus platycephalus.	Trenton.
2105. (65).	Lingula quadrata.	ditto.
2106. (66).	Pleurotomaria.	ditto.
2107. (67).	Asaphus canadensis.	
2108. (68).	Lingula oblonga.	
2109. (69).	Asaphus canadensis (fragments).	
2110. (70).	Triarthrus beckii.	
2111. (71).	Strophomena alternata.	
2112. (72).	Murchisonia.	
2113. (73).	Graptolithus.	
2114. (74).	Orthoceras.	
2115. (75).	Ambonychia radiata.	Hudson River.
2116. (76).	Ambonychia radiata.	ditto.
2117. (77).	Crinoid Stem.	ditto.
2118. (78).	Sections of Crinoid stems.	ditto.
2119. (79).	Lecanocrinus elegans.	ditto.
2120. (80).	Modiolopsis modiolaris.	ditto.
2121. (81).	Modiolopsis modiolarias.	ditto.
2122. (82).	Strophomena.	ditto.
2123. (83).	Murchisonia.	ditto.
2124. (84).	Orthoceras.	ditto.
2125. (85).	Orthoceras.	ditto.
2126. (86).	Modiolopsis modiolaris.	ditto.
2127. (87).	Rhynchonella plena.	ditto.
2128. (88).	Pleurotomaria.	ditto.
2129. (89).	Fucoids	ditto.
2130. (90).	Chaetetes	ditto.

SILURIAN.

The Silurian rocks of North America differ in some important points from the British series, and they are divided into the Medina, Clinton, Niagara, Guelph, Onondaga, and Upper Helderberg formations.

2131. (91).	Arthropycus harlanu.	Medina and Clinton.
2132. (92).	Stromatopora concentrica.	Niagara.
2133. (93).	Caryocrinus ornatus.	ditto.
2134. (94).	Ditto ditto	ditto.
2135. (95).	Halysites catenulata.	ditto.
2136. (96).	Ditto ditto	ditto.
2137. (97).	Favosites gothlandica.	ditto.
2138. (98).	Aulocopino.	ditto.
2139. (99).	Ditto (polished).	ditto.
2140. (100).	Lingula cuniata.	ditto.
2141. (101).	Platyostoma.	ditto.
2142. (102).	Conulario niagarensis.	ditto.
2143. (103).	Dalmanites limuluans.	ditto.
2144. (104).	Orthis circulus.	ditto.
2145. (105).	Dalmania vicilans.	ditto.
2146. (106).	Pterinea demessa.	Hudson River.
2147. (107).	Avicula.	Niagara.
2148. (108).	Stricklandinia.	
2149. (109).	Illæus barirensis.	
2150. (110).	Strophomena rhomboidalis.	
2151. (111).	Pentamerus oblongus.	
2152. (112).	Graptolithus.	
2153. (113).	Ditto.	
2154. (114).	Ditto.	

The numbers in parenthesis correspond with the numbers on the Specimens.

SILURIAN—continued.

2155.	(115).	<i>Discina formosa.</i>	
2156.	(116).	<i>Strophomena striata.</i>	
2157.	(117).	<i>Favosites gothlandica.</i>	
2158.	(118).	<i>Fenestella.</i>	
2159.	(119).	<i>Encrinurus ornatus.</i>	
2160.	(120).	<i>Bucania trilobata.</i>	Medina and Clinton.
2161.	(121).	<i>Posidonomya.</i>	ditto.
2162.	(122).	<i>Stromatopora concentrica</i>	Guelph.
2163.	(123).	<i>Pycnostylus guelphensis.</i>	ditto.
2164.	(124).	<i>Stromatopora ostiolata.</i>	ditto.
2165.	(125).	<i>Trimerella grandis.</i>	ditto.
2166.	(126).	<i>Megalomus canadensis.</i>	ditto.
2167.	(127).	Ditto	ditto
2168.	(128).	Ditto	ditto
2169.	(129).	Ditto	ditto
2170.	(130).	Ditto	ditto
2171.	(131).	Ditto compresso.	ditto.
2172.	(132).	<i>Pentamerus occidentalis</i>	ditto.
2173.	(133).	Ditto	ditto
2174.	(134).	<i>Orthoceras.</i>	ditto.
2175.	(135).	<i>Murchisonia macrospira.</i>	ditto.
2176.	(136).	Ditto	ditto.
2177.	(137).	<i>Halysites compacta.</i>	ditto.
2178.	(138).	<i>Monomerella ovata.</i>	ditto.
2179.	(139).	<i>Murchisonia gracilio.</i>	ditto.
2180.	(140).	<i>Trimerella acuminate.</i>	ditto.
2181.	(141).	<i>Murchisonia.</i>	ditto.
2182.	(142).	Ditto	ditto.
2183.	(143).	Ditto	ditto.
2184.	(144).	<i>Favosites.</i>	ditto.
2185.	(145).	<i>Murchisonia turritiformis.</i>	ditto.
2186.	(146).	Ditto macrospira.	ditto.
2187.	(147).	<i>Holopea occidentalis.</i>	ditto.
2188.	(148).	<i>Ecculiomphalus cininatus.</i>	ditto.
2189.	(149).	<i>Charionella hyale.</i>	ditto.
2190.	(150).	<i>Murchisonia.</i>	ditto.
2191.	(151).	Ditto	ditto.

DEVONIAN SERIES.

The Devonian Rocks intervening between the Silurian and Carboniferous formations are very fully developed in North America.

			Ontario Formation.
2192.	(152).	<i>Michelina convexa.</i>	Corniferous.
2193.	(153).	<i>Syringopora.</i>	ditto.
2194.	(154).	Ditto	ditto.
2195.	(155).	<i>Gaphrentis prolificus.</i>	ditto.
2196.	(156).	<i>Syringopora.</i>	ditto.
2197.	(157).	<i>Strophomena.</i>	ditto.
2198.	(158).	<i>Favosites turbinata.</i>	ditto.
2199.	(159).	<i>Atrypa reticularis.</i>	ditto.
2200.	(160).	<i>Syringora concentrica.</i>	ditto.
2201.	(161).	<i>Favosites gothlandica.</i>	ditto.
2202.	(162).	<i>Chaetetes quadrangularis.</i>	ditto.
2203.	(163).	<i>Favosites.</i>	ditto.
2204.	(164).	Ditto	ditto.
2205.	(165).	<i>Heliophyllum.</i>	ditto.

The numbers in parenthesis correspond with the numbers on the Specimens.

DEVONIAN SERIES—continued.

2206. (166).	Heliophyllum.	Corniferous
2207. (167).	Spirifer mucronatus.	Hamilton.
2208. (168).	Oulopora cornuta.	ditto.
2209. (169).	Ditto filiformis.	ditto.
2210. (170).	Botryllopora socialis.	ditto.
2211. (171).	Platyceras.	ditto.
2212. (172).	Ditto	ditto.
2213. (173).	Dalmanites boothi.	ditto.
2214. (174).	Phacops vana.	ditto.
2215. (175).	Orthis testudinaria.	ditto.
2216. (176).	Chonetes.	ditto.
2217. (177).	Spirifera sculptilis.	ditto.
2218. (178).	Phacops vana (head).	ditto.
2219. (179).	Favosites (attached to Zaphrentis).	ditto.
2220. (180).	Fenestella.	ditto.
2221. (181).	Plate of a Ganoid Fish.	ditto.
2222. (182).	Calamites ornatus.	Portage Chemung.

PLEISTOCENE.

2223. (183).	Buccinum undatum.	Ontario.
2224. (184).	Saxicava rugosa.	ditto.
2225. (185).	Mya truncata.	ditto.
2226. (186).	Buccinofusus.	ditto.
2227. (187).	Leda pernula.	ditto.
2228. (188).	Buccinum glaciale.	ditto.
2229. (189).	Phryncenella psittacea.	ditto.
2230. (190).	Tellina proxima.	ditto.
2231. (191).	Mytilis edulis.	ditto.
2232. (192).	Natica clausa.	ditto.
2233. (193).	Astarte laureat.	ditto.
2234. (194).	Lepeta caeca.	ditto.
2235. (195).	Mya arenaria.	ditto.
2236. (196).	Leda truncata.	ditto.
2237. (197).	Balanus hameri.	ditto.
2238. (198).	Buccinum cyaneum.	ditto.
2239. (199).	Buccinum ciliatum.	ditto.
2240. (200).	Tellina greenlandica.	ditto.
2241. (201a).	Mallotus villosus.	ditto.
2242. (202a).	Ditto	ditto.
2243. (203b).	Ditto	ditto.
2244. (204f).	Ditto	ditto.
2245. (205).	Rocks with Glacial striæ.	District.
2246. (206).	Ditto	Niagara.
2247. (207).	Ditto	Lake Crie.
2248. (208).	Ditto	Cobourg.
		Lake Huron.

MODERN.

2249. (209).	Petrified Leaves.	Lambton County.
2250. (210).	Petrified Moss.	ditto.
2251. (211).	Shell Marl.	College Farm.

MISCELLANEOUS.

2252. (212). Fossils in process of formation.
 2253. (213). Fragments of Ontario Boulders (Gneiss).

The numbers in parenthesis correspond with the numbers on the Specimens.

MISCELLANEOUS—continued.

2254. (214).	Fragments of Ontario Boulders (Quartzite).
2255. (215).	Ditto ditto (Gneiss).
2256. (216).	Ditto ditto (Gneiss).
2257. (217).	Ditto ditto (Hornblendic).
2258. (218).	Ditto ditto (Micaceous).
2259. (219).	Ditto ditto (Limestone with Fossil Coral).
2260. (220).	Weathered Fossiliferous Limestone.

ROCKS WHICH CHIEFLY COMPOSE THE EARTH'S CRUST.

2261. (221).	Granite.	2266. (226).	Dolomite.
2262. (222).	Gneiss.	2267. (227).	Coal.
2263. (223).	Limestone.	2268. (228).	Trachyte.
2264. (224).	Trap.	2269. (229).	Soil or Ground Rock
2265. (225).	Quartzite.		

MINERALS WHICH CONSTITUTE THE MAJORITY OF ROCKS.

2270. (230).	Quartz.	2279. (239).	Dolomite.
2271. (231).	Felspar.	2280. (240).	Chlorite.
2272. (232).	Mica.	2281. (241).	Gypsum.
2273. (233).	Hornblende.	2282. (242).	Gypsum (Crystal).
2274. (234).	Pyroxene.	2283. (243).	Rock Salt.
2275. (235).	Apatite.	2284. (244).	Hematite.
2276. (236).	Talc.	2285. (245).	Limonite.
2277. (237).	Serpentine.	2286. (246).	Coal.
2278. (238).	Calcite.	2287. (247).	Graphite.

ANIMALS WHICH HAVE INFLUENCED THE FORMATION OF SOIL.

ZOOLOGY. *Sub-Kingdom Protozoa.*

(The most lowly organized members of the Animal Kingdom.)

2288. (248).	Foramanifera.	2289. (249).	Sponge.
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Sub-Kingdom Coelenterata.

2290. (250).	Fungidae.	2293. (253).	Fossil Coral Ontario.
2291. (251).	Corallium fubrum.	2294. (254).	Ditto.
2292. (252).	Ditto purpuaca.	2295. (255).	Ditto.

Sub-Kingdom Annuloida. Class Echinodermata.

2296. (256).	Echinus drobachiensis.	2298. (258).	Sea Urchin, with spines.
2297. (257).	Sea Urchin, without spines.	2299. (259).	Echinorachinus parma.

Sub-Kingdom Annulosa. Order Oligochaeta.

2300. (260).	Lumbricus terrestris (earthworms).
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Sub-Kingdom Mollusca. Order Brachiopoda.

2301. (261).	Terrebratula (lamp shell).
2302. (262).	Fossil Forms of lamp shells.
2303. (263).	Fossil Forms of lamp shells.
2304. (264).	Ditto ditto.

The numbers in parenthesis correspond with the numbers on the Specimens.

Class Cephalopoda.

2305. (265). *Nautilus pompilius*.
 2306. (266). *Ammonites placenta fossil*.
 2307. (267). *Orthoceras*.

Class Cephalophora.

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| 2308. (268). <i>Strombus pugilis</i> . | 2318. (278). <i>Lunatia heros</i> . |
| 2309. (269). <i>Achatina zebra</i> . | 2319. (279). <i>Triton tritonus</i> . |
| 2310. (270). <i>Murex</i> . | 2320. (280). <i>Buccinum undatum</i> . |
| 2311. (271). <i>Halistis tuberculata</i> . | 2321. (281). <i>Planorbis</i> . |
| 2312. (272). <i>Rosetellaria conirostres</i> . | 2322. (282). <i>Limnaea stagnalis</i> . |
| 2313. (273). <i>Cameo</i> . | 2323. (283). <i>Murex purpurea</i> . |
| 2314. (274). <i>Pteroceras scorpio</i> . | 2324. (284). <i>Trochus nilotocus</i> . |
| 2315. (275). <i>Cypraea mauritiana</i> . | 2325. (285). <i>Terebra maculata</i> . |
| 2316. (276). <i>Conus literatus</i> . | 2326. (286). <i>Maclurea fossil form</i> . |
| 2317. (277). <i>Harpa ventricosa</i> . | 2327. (287). <i>Murchisonia ditto</i> . |

Sub-Kingdom Mollusca. Class Lamellibranchiata.

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| 2328. (288). <i>Ostrea</i> . | 2336. (296). <i>Mytilus edulis</i> . |
| 2329. (289). Ditto | 2337. (297). <i>Lima squamosa</i> . |
| 2330. (290). <i>Dione maculata</i> . | 2338. (298). <i>Cardium costatum</i> . |
| 2331. (291). <i>Avicula hirundo</i> . | 2339. (299). <i>Malleus vulgaris</i> . |
| 2332. (292). Thorny oyster. | 2340. (300). <i>Pholas dactylus</i> . |
| 2333. (293). <i>Unio margintifer</i> . | 2341. (301). <i>Ambonychia radiata</i>
(fossil). |
| 2334. (294). <i>Mytilus striata</i> . | 2342. (302). <i>Modiolopsis modiolaris</i> . |
| 2335. (295). <i>Donax deltoides</i> . | |

Sub-Kingdom Anthropoda.

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| 2343. (303). <i>Limulus polyphemus</i> . | 2346. (306). <i>Balanus balanoides</i> . |
| 2344. (304). <i>Balanus balanoides</i> . | 2347. (307). <i>Asaphus</i> (fossil). |
| 2345. (305). <i>Lepas anatifera</i> . | |

MINERALOGICAL COLLECTION.

SPECIMENS USED FOR PURPOSES OF REFERENCE IN THE MUSEUM.

Each specimen of the following collection is mounted on a black walnut block, with a printed label, giving name, Dana's species number, crystallographic form, chemical formula and locality.

NATIVE ELEMENTS.

2348. (362). Native Gold in quartz. California.
 2349. (363). Native Silver. Freiburg, Saxony.
 2350. (364). Native Sulphur. Grigenti, Sicily.
 2351. (365). Graphite. Ceylon.

SULPHIDES AND ARSENIDES.

2352. (366). Stibnite. Sarawak, Borneo.
 2353. (367). Galenite. Cumberland, England.
 2354. (368). Sphalerite. Roxburg, Connecticut.

The numbers in parenthesis correspond with the numbers on the Specimens.

SULPHIDES AND ARSENIDES—*continued*.

2355. (369). Cinnabar. New Almaden, California.
 2356. (370). Pyrite. Isle of Elba.
 2357. (371). Cobaltite. Cast of a crystal ($2\frac{1}{2}$ inches in diameter) found at Tunaberg, Sweden.
 2358. (372). Marcasite. Folkstone, England. A nodule consisting of an aggregate of crystals from the chalk marl.
 2359. (373). Arsenopyrite. Freiberg, Saxony.

CHLORIDES AND FLUORIDES.

2360. (374). Halite. Rock Salt, Stassfurt, Prussia.
 2361. (375). Halite. A Reddish-coloured variety from Austria.
 2362. (376). Fluorite. Cumberland, England.
 2363. (377). Cryolite. Arksuttfjord, Greenland.

OXIDES.

2364. (378). Zincite. Franklin Furnace, N.J.
 2365. (379). Corundum. North Carolina.
 2366. (380). Hematite. Common Ore. Antwerp, N.Y.
 2367. (381). Menaccanite. Titanic Iron. Cumberland, R.I.
 2368. (382). Spinel. Amity, New York.
 2369. (383). Magnetite. Granular, Massive. Port Henry, New York.
 2370. (384). Chromite. Baltimore, Maryland.
 2371. (385). Cassiterite. Tinswald, Saxony.
 2372. (386). Rutile. Krageroe, Norway.
 2373. (387). Pyrolusite. Langeberg, Saxony.
 2374. (388). Limonite. Brown Iron Ore. Lake Superior.
 2375. (389). Variety, Ochre. Cape Girardeau, Missouri.
 2376. (390). Brucite. Texas, Pennsylvania.
 2377. (391). Hydrotalcite, associated with Serpentine. Vernon, New Jersey.
 2378. (392). Quartz. Large perfect crystal. Rondout, New York.
 2379. (393). Quartz. Crystallized specimen. Arkansas.
 2380. (394). Quartz. Variety, Rose Quartz. Bedford, N.M.
 2381. (395). Quartz. Variety, Amethyst. Lake Superior.
 2382. (396). Quartz. Variety, Smoky Quartz. Bedford, New York.
 2383. (397). Quartz. Variety, Chalcedony. Tampa Bay, Florida.
 2384. (398). Quartz. Specimens of Agate from Brazil.
 2385. (399). Quartz. Variety, Flint. Dover, England.
 2386. (400). Novaculite. Arkansas.

SILICATES.

2387. (401). Wollastonite. Tabular Spar. Amity, New York.
 2388. (402). Pyroxene. Puy de la Rhode, Auvergne.
 2389. (403). Amphibole. Variety, Actinolite. Cranston, Rhode Island.
 2390. (404). Asbestos. Mineral Flax. Tyrol.
 2391. (405). Beryl. Middletown, Connecticut.
 2392. (406). Garnet. Dodecahedral crystals embedded in Mica Schist, Southbury, Connecticut.
 2393. (407). Phlogospite. Vrooman's Lake, Jefferson Co., N. Y.
 2394. (408). Biotite. Edenville, N.M.
 2395. (409). Muscovite. Magnetited Mica or "Picture Mica." Delaware Co., Pennsylvania.
 2396. (410). Wernerite. Scapolite. Templeton, Ontario.
 2397. (411). Leucite. In lava, from Mount Vesuvius, Italy.
 2398. (412). Labradorite. Polished Specimen, Labrador.
 2399. (413). Oligoclase. Arendal, Norway.

The numbers in parenthesis correspond with the numbers on the Specimens.

SILICATES—*continued*.

2400. (414). Albite. Pfitsch, Tyrol.
 2401. (415). Microcline. Variety Amazonstone. Pike's Peak, Colorado.
 2402. (416). Microcline. Orthoclase. Arendal, Norway.
 2403. (417). Orthoclase. Felspar. Carlsbad, Bohemia.
 2404. (418). Obsidian. Volcanic Glass. Island of Lipari, Mediterranean.
 2405. (419). Pumice. Island of Lipari, Mediterranean.
 2406. (420). Chondrodite. Humite. Amity, New York.
 2407. (421). Tourmaline. Large Crystal. Randolph Co., Alabama.
 2408. (422). Cyanite. Randolph Co., Alabama.
 2409. (423). Chrysocolla. Chanarcillo, Chili.
 2410. (424). Calamine. Ogdensburg, New York.
 2411. (425). Natrolite. Aussig, Bohemia.
 2412. (426). Analcite. Analcime. Fassathal, Tyrol.
 2413. (427). Chabazite. Rubendoefel, Bohemia.
 2414. (428). Talc. Variety. Fowler, New York.
 2415. (429). Serpentine. Waldheim, Saxony.
 2416. (430). Serpentine. Polished specimen. Hartford Co., Maryland.
 2417. (431). Kaolinite. Porcelain Clay. Bedford, Indiana.
 2418. (432). Catlinite. Indian-Pipe Stone. Pipe Stone, Minnesota.
 2419. (433). Indurated Clay. Mt. Savage, Maryland.

PHOSPHATES, NITRATES, BORATES AND TUNGSTATES.

2420. (434). Apatite. Burgess, Ontario.
 2421. (435). Wavellite. Garland Co., Arkansas.
 2422. (436). Dufrenite. Rockbridge Co., Virginia.

SULPHATES.

2423. (437). Barite. Massive Variety. Cooke Co., Tennessee.
 2424. (438). Gypsum. Variety Selenite. Poland, Ohio.
 2425. (439). Gypsum. Variety Satin Spar. Derbyshire, England.
 2426. (440). Gypsum. Variety Alabaster. Castelino, Italy.

CARBONATES.

2427. (441). Calcite. Calc Spar. Cornwall, England.
 2428. (442). Calcite. Variety Iceland Spar. Iceland.
 2429. (443). Calcite. Variety Statuary Marble. Italy.
 2430. (444). Calcite. Variety Chalk. Dover, England.
 2431. (445). Calcite. Variety Calcareous Tufa. Niagara Falls, Ontario.
 2432. (446). Dolomite. Pearl Spar. Niagara Falls, Ontario.
 2433. (447). Siderite. Spathic Iron. Roxburg, Connecticut.
 2434. (448). Aragonite. Bastenes, France.
 2435. (449). Natron. Massive. Natron Lakes of Egypt.
 2436. (450). Malachite. From the Copper-mines of Buna-Buna, Australia.

HYDRO-CARBONS.

2437. (451). Ozocerite. Boeyslaw, Galacia. Used in Austria for making Candles.
 2438. (452). Asphaltum. Island of Trinidad.
 2439. (453). Albertite. New Brunswick.
 2440. (454). Mineral Coal. Variety Cannel Coal. Grayson, Kentucky.
 2441. (455). Mineral Coal. Variety Lignite. Gmunden, Austria.
 2442. (456). Mineral Coal. Variety Jet. Ohmden, Wurtemberg.

The numbers in parenthesis correspond with the numbers on the Specimens.

BOTANY.

SPECIMENS ILLUSTRATING SYSTEMATIC AND ECONOMIC BOTANY USED FOR
TEACHING PURPOSES.

				<i>Orders.</i>
2443.	(308).	Verbascum	.. ..	Scrophulariceæ.
2444.	(309).	Lappa	.. ..	Compositæ.
2445.	(310).	Leucanthemum	.. ..	ditto.
2446.	(311).	Cirsium	.. ..	ditto.
2447.	(312).	Aquilegia	.. ..	Ranunculaceæ.
2448.	(313).	Anemone	.. ..	ditto.
2449.	(314).	Hepatica	.. ..	ditto.
2450.	(315).	Podophyllum	.. ..	Berberidaceæ.
2451.	(316).	Sanguinaria	.. ..	Papaveraceæ.
2452.	(317).	Dicentia	.. ..	Fumariaceæ.
2453.	(318).	Lepidium	.. ..	Cruciferæ.
2454.	(319).	Epilobium	.. ..	Onograceæ.
2455.	(320).	Erigeron	.. ..	Compositæ.
2456.	(321).	Sonchus	.. ..	ditto.
2457.	(322).	Solidago	.. ..	ditto.
2458.	(323).	Aira	.. ..	Gramineæ.
2459.	(324).	Bromus	.. ..	ditto.
2460.	(325).	Dactylis	.. ..	ditto.
2461.	(326).	Poa	.. ..	ditto.
2462.	(327).	Triticum	.. ..	ditto.
2463.	(328).	Phleum	.. ..	ditto.
2464.	(329).	Lychnis	.. ..	Caryophyllaceæ.
2465.	(330).	Melilotus	.. ..	Leguminosæ.
2466.	(331).	Capsella	.. ..	Cruciferæ.
2467.	(332).	Brassica	.. ..	ditto.
2468.	(333).	Arisæma	.. ..	Araceæ.
2469.	(334).	Mitella	.. ..	Saxifragaceæ.
2470.	(335).	Fragaria	.. ..	Rosaceæ.
2471.	(336).	Rubus	.. ..	ditto.
2472.	(336).	Achillea	.. ..	Compositæ.
2473.	(337).	Cynoglossum	.. ..	Boraginaceæ.
2474.	(339).	Echinosperrum	.. ..	ditto.
2475.	(340).	Pyrola	.. ..	Ericaceæ.
2476.	(341).	Asclepias	.. ..	Asclepiadaceæ.
2477.	(342).	Echium	.. ..	Boraginaceæ.

ORDER GRAMINEÆ.

2478.	(343).	Sheep's Fescue	.. ..	Festuca ovina.
2479.	(344).	Rye Grass	.. ..	Lolium perenne.
2480.	(345).	Yellow Oat	.. ..	Avena flavescens.
2481.	(346).	Fall Fescue	.. ..	Festuca elatior.
2482.	(347).	Rough Stalked Meadow	.. ..	Poa trivialis.
2483.	(348).	Hard Fescue	.. ..	Festuca duriuscula.
2484.	(349).	Small ditto	.. ..	ditto microstachys.
2485.	(350).	Red ditto	.. ..	ditto rubra.
2486.	(351).	Wood Meadow	.. ..	Poa nemoralis.
2487.	Set of Botanical Charts.			

The numbers in parenthesis correspond with the numbers on the Specimens.

ZOOLOGY.

2488. Model of a Horse, showing internal structure.
 2489. Model of a Cow, showing internal structure.
 2490. Head of Devon Steer, fed at the Farm, aged four years, weighed 1,960 lbs.
 2491. Head of Prince Albert Windsor Boar, purchased from Her Majesty the Queen, 1876, aged four years, weighed 410 lbs.
 2492. Collection of Insects, injurious to vegetation. 1 to 11, Apple; 12-13, Pear; 14-18, Plum; 18-22, Cherry; 23-24, Cabbage; 25, Tomato; 26-32, Grape; 33, Currant; 34, Pea; 35, Potato.
 2493. Collection of Coleoptera.
 2494. Ditto Hymenoptera.
 2495. Ditto Lepidoptera.

AGRICULTURAL SEEDS.—*In Bottles.**Barley.*

2496. Two-rowed.
 2497. Ditto.
 2498. Four-rowed.
 2499. Ditto.
 2500. Six-rowed.
 2501. Ditto.

Wheat.

2502. Club.
 2503. Club Spring.
 2504. Deihl.
 2505. Ditto.
 2506. Farrow Spring.
 2507. Ditto.
 2508. Fyfe.
 2509. Fyfe Spring.
 2510. Glasgow.
 2511. Golden Drop.
 2512. Ditto.
 2513. Red Chaff Spring.
 2514. Ditto.
 2515. Rio Grande Spring.
 2516. Ditto.
 2517. Scott.
 2518. Scott Fall.
 2519. Soules' Winter.
 2520. Ditto.
 2521. Treadwell Fall.
 2522. Ditto.

Rye.

2523. Rye.
 2524. Ditto.

Oats.

2525. Australian.
 2526. Black.
 2527. Ditto.
 2528. Hopetown.
 2529. New Zealand.
 2530. Potato White.

Oats.

2531. Potato White.
 2532. Surprise.
 2533. Surprise White.
 2534. White.
 2535. Ditto.

Beans.

2536. Beans.
 2537. Black Butter.
 2538. Bush Ditto.
 2539. Early China.
 2540. Six Weeks.
 2541. White Marrowfat.
 2542. Ditto.

Peas.

2543. Black-eye Marrowfat.
 2544. Black Marrowfat.
 2545. Crown.
 2546. Ditto.
 2547. Golden Vine.
 2548. Ditto.
 2549. Prince Albert.
 2550. Small Field.
 2551. Ditto.
 2552. White Marrowfat.
 2553. Ditto.

Timothy Seed.

2554. Timothy Seed.
 2555. Ditto.

Clover Seed.

2556. Clover Seed.
 2557. Ditto.

Millet.

2558. Brown Corn.
 2559. Chinese.

Carrot Seed.

2560. Carrot.

HISTORICAL AND STATISTICAL.

Chart showing History and progress of the Institution.

(See trophy).

2561. Chart showing Plan of Experimental field plots.
 2562. Ditto ditto of Farm.
 2563. Ditto ditto of Aboretum, Planting, &c.
 2564. Ditto Food in Cattle life, ten years at the Farm.
 2565. Ditto Milk for Season, an estimate, 12 Cows.
 2566. Ditto Chemical Analysis of Milk, 11 Cows.
 2567. Ditto Cream, per cent., 11 Cows.
 2568. Ditto Butter Globules, result of 21 Microscopic observations at Farm, 12 Cows.
 2569. Ditto Butter, per 100 lbs. Milk and Cream, 11 Cows.
 2570. Ditto Cheese, per 100 lbs. ditto 11 Cows.
 2571. Ditto Farmers' Institutes held throughout the Province.
 2572. Photograph of Building.

REPORTS, &c.

2573. Annual Report of Ontario Agricultural College, 1882.
 2574. Ditto ditto ditto 1883.
 2575. Ditto ditto ditto 1884.
 2576. Ditto of the Commissioner of Agriculture and Arts for the Province of Ontario, 1882.
 2577. Ditto ditto ditto 2 vols., 1883.
 2578. Ditto ditto ditto 1884.
 2579. Ontario Agricultural Commission, 1881, 4 vols.

Dairymen's Association.—Reports &c.

2580. Transactions of the Fifth Annual Convention of the Dairymen's Association of Eastern Ontario, 1882.
 2581. Annual Report of the Dairymen's Association of Western Ontario, 1882.
 2582. Transactions of the Sixth Annual Convention of the Dairymen's Association of Eastern Ontario.
 2583. Annual Report of the Dairymen's Association of Western Ontario, 1883.
 2584. Transactions of the Dairymen's Association of Eastern Ontario, 1884.
 2585. Proceedings of the Seventh Annual Meeting of the Dairymen's Association of Western Ontario, 1884.

Fruit Growers' Association and Entomological Society.

2586. Reports of the Fruit Growers' Association and Entomological Society of Ontario, 1882.
 2587. Ditto ditto ditto 1883.
 2588. Ditto ditto ditto 1884.
 2589. Annual Report of the Entomological Society, 1879—1884.

Ontario Veterinary College, Toronto, Ontario.

A. SMITH, V.S., Principal and Proprietor.

The number of graduates since 1866 is over six hundred; number of students in attendance, session 1885-6, three hundred.

PHOTOGRAPHS.

2590. View of College.
2591. Dissecting Rooms. Two views.
2592. Operating Room.
2593. Ditto with Students.
2594. Portraits of 90 Senior Students, 1884-5.
2595. Portraits of 85 Senior Students, 6 Professors, and the Principal, 1886.
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PART. VI.

SCHOOL OF PRACTICAL SCIENCE, SCIENTIFIC SOCIETIES, AND
COMMERCIAL COLLEGES.**School of Practical Science.** Established 1877.

(Photograph of Buildings on the Trophy).

SPECIMENS OF DRAWING FROM THE DEPARTMENT OF ENGINEERING.

1ST YEAR. DESCRIPTIVE GEOMETRY.

Orthographic Projection.

2596.	Chewett, W. J.	..	..	Oblong Block.
2597.	Richardson, G. H.	..	..	Revolution of Triangle.
2598.	Apsey, J. F.	..	..	Section of Square Prism.
2599.	Ditto	..	..	Hexagonal Pyramid.
2600.	Wright, C. H. C.	..	..	Axonometric Projection.
2601.	Pinhey, C. H.	..	..	Isometric Scale.
2602.	Richardson, G. H.	..	..	Isometric Projection of Drawing Board.
2603.	Ludgate, B. A.	..	..	Ditto ditto Table.
2604.	Richardson, G. H.	..	..	Oblique Projection of Drawing Table.

Surveys.

2605.	Richardson, G. H.	..	..	Plot of Survey of Points.
2606.	McDowall, R.	..	..	Plot of Survey of Building.
2607.	Richardson, G. H.	..	..	Plotting by Latitudes and Departures.

Graphics.

2608.	Chewett, H. J.	..	..	Strain Sheet of Cantilever.
2609.	Apsey, J. F.	..	..	Strain Sheet of German Roof Truss.
2610.	Ditto	..	..	Strain Sheet of English Roof Truss.
2611.	Richardson, G. H.	..	..	Determination of Balancing Force.
2612.	Clement, W. A.	..	..	Determination of Balancing Couple.
2613.	Ludgate, B. A.	..	..	Strain Sheet of French Roof Truss.
2614.	Chewett, H. J.	..	..	Shearing Forces and Bending Move-
2615.	Ludgate, B. A.	..	..	Strain Sheet Howe Truss. [ments.
2616.	Marain, C...	..	..	Strain Sheet Howe Truss.

Machine Drawings.

2617.	Leask, J. L.	..	..	Spur Gear, Plate I.
2618.	Ditto	..	..	Ditto Plate II.
2619.	Ditto	..	..	Screws, Bolts and Nuts.
2620.	Ditto	..	..	Theory of Screws.
2621.	Ditto	..	..	Vice.

Construction Copies.

2622.	Apsey, J. F.	..	..	Details of Roof.
2623.	Wright, C. H. C.	..	..	Joints.
2624.	Ditto	..	..	Practice Sheet.

2ND YEAR. DESCRIPTIVE GEOMETRY.

2625. Thompson, T. K.	Projections of Cylinder.
2626. Ditto	Conic Sections.
2627. Ludgate, B. A.	Intersection of Cylinders—Development.
2628. Tyrrell, G. H.	Intersection of Cylinder and Cone—Development.
2629. Henderson, E. E.	Intersection of Cones—Development.
2630. Martin, F. A.	Screws.
2631. Ludgate, B. A.	Stereographic Projection of Celestial Sphere.
2632. Ditto	Determination of Latitude.
2633. Ditto	Determination of Apparent Time.
2634. Stern, E. W.	Flamstead's Projection.
2635. Williams, J. C.	Oblique Drawing.

Copies.

2636. Stern, E. W.	Framing.
2637. Henderson, E. E.	Ditto.
2638. Marain, C.	Ditto.
2639. Ditto	Ditto.
2640. Ditto	Ditto.
2641. Martin, F. A.	Ditto.
2642. Thompson, P. H.	Topographical Copy.
2643. Duggan, G. H.	Coloured Plan.
2644. Henderson, E. E.	Pen Copy.

Practice Sheets.

2645. Henderson, E. E.	Lettering.
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3RD YEAR. DESCRIPTIVE GEOMETRY.

Orthographic Projection.

2646. Williams, J. C.	Shadow of Rectangular Body.
2647. Thompson, P. K.	Shadow of Cylindrical Body.
2648. Robertson, J.	Shadow of Sphere.
2649. Thompson, P. K.	Shadow of Spheroid.

Perspective Projection.

2650. Hermon, E. B.	Perspective by Traces.
2651. Ditto	Perspective by Vanishing Points.
2652. Stern, E. W.	Perspective by Perpendiculars and Diagonals.

Stone Cutting.

2653. Stern, E. W.	Stone Cutting—Wall and Buttress.
2654. Duggan, G. H.	Ditto Plate Band.

Surveys.

2655. Stern, E. W.	Profile of Road, Plate I.
2656. Ditto	Cross Section Sheet, Plate II.
2657. Hermon, E. B.	Plan of Rednersville.

Constructive Design.

2658. Tyrrell, J. W.	Design for Floor.
2659. Ditto	Ditto Beam of Equal Strength.
2660. McCulloch, A.	Ditto Trussed Beam, Plate I.
2661. Thompson, P. K.	Ditto ditto Plate II., Strain Sheet.
2662. Robertson, J.	Wooden Railway Bridge, Pratt Truss.
2663. Williams, J. C.	Ditto ditto.

DESCRIPTIVE GEOMETRY.—*Constructive Design—continued.*

2664.	Duggan, G. H.	..	..	..	Details of Wooden Bridge.
2665.	Ditto	..	..	..	Design for Plate Girder, Plate I.
2666.	Ditto	..	..	..	Ditto Plate II., Strain Sheet.
2667.	Ditto	..	..	..	Stone Arch, Isometric View, Plate I.
2668.	Tyrrell, J. W.	..	..	..	Ditto Strain Sheet, Plate II.

Copies.

2669.	Duggan, G. H.	..	..	..	Pen Copy of Crib, Toronto Waterworks.
2670.	Robertson, J.	..	..	..	Bevel Wheel.
2671.	Hermion, E. B.	..	..	..	Friction Gear.
2672.	Ditto	..	..	..	Monument.
2673.	Tyrrell, J. W.	..	..	..	Topographical Copy, Part of Quebec.
2674.	McCulloch, A. L.	..	..	..	Township Plan, Dominion Survey.
2675.	Thompson, P. K.	..	..	..	Ditto Ontario Survey.
2676.	Robertson, J.	..	..	..	Field Notes of Township Survey (Ontario System).
2677.	Ditto	..	..	..	Topographical Copy.
2678.	Ditto	..	..	..	Ditto.
2679.	Raymer, A. H.	..	..	..	The Globe in Polygonic Projection.
2680.	Ditto	..	..	..	Polygonic Projection enlarged tenfold.

Institute Canadien Francais de la cité Ottawa.

CRAYON DRAWINGS.

2681.	Charron, L.	..	..	..	Crayon Drawing.
2682.	Ditto	..	..	..	Ditto.
2683.	Lepage, J. B.	..	..	..	Portrait Drawing.
2684.	Ditto	..	..	..	Ditto.

INDIAN INK AND PENCIL.

2685.	Taché, C.	..	..	..	Indian Ink Work.
2686.	Ditto	..	..	..	Ditto.
2687.	Aubé, Joseph	..	..	..	Scene from Nature.

MECHANICAL DRAWING.

2688.	Sawyer, John A.	..	..	..	Engine.
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ARCHITECTURAL AND MASONRY.

2689.	Beland, L. J.	..	..	..	Architectural Drawing.
2690.	Charbonneau, A.	..	..	..	Ditto.
2691.	Charron, L.	..	..	..	Masonry, Water Colors.

LINEAR DRAWING.

2692.	Charbonneau, A.	..	..	..	Linear Drawing.
2693.	Charron, L.	..	..	..	Ditto.
2694.	Ditto	..	..	..	Ditto.
2695.	Ditto	..	..	..	Ditto.

PERSPECTIVE.

2696.	Charron, L.	..	..	..	Three Perspective Drawings.
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MAP DRAWING.

2697. Lepage, J. B. Map of Sebastopol.

FANCY LETTERING.

2698. Aubé, Joseph Fancy Lettering.

PENMANSHIP.

2699. Drouerr, A. M. P. Penmanship.
2700. *Meteorological Observatory, Toronto.* Photograph.

Brockville Business College, *Brockville.*

W. C. AUSTIN, Principal.

THEORY AND ACTUAL BUSINESS DEPARTMENT.

2701. Set of Books just finished by one of the Students, representing the work actually done by the Students in the Junior Theory and Preparatory, and Senior Theory and Actual Business Practice Departments.

Text Books.

2702. Beatty and Johnson's Canadian Accountant; Packard's Commercial Arithmetic; Spelling Exercises.

Students' Work.

2703. Balance Sheet showing state of Student's Ledger in Theory Department.
2704. *Samples* of the Money and Merchandise used by Students in the Actual Business Department of the College.
2705. *Pen and Ink Sketch* of Durham and Holstein Bull, executed by a Graduate of the College.
2706. *Cards and bird* flourished by a Student of the Penmanship Department.

Canada Business College, *Hamilton.*

R. E. GALLAGHER, Principal.

Business Penmanship.

2707. Comprising commercial forms, business letters, &c.

Off-hand Flourishing.

2708. Two horses on the Prairies.
2709. Hoffman, Wm., Stag.

Northern Business College, *Owen Sound.*

C. A. FLEMING, Principal.

2710. Specimens Ornamental Penmanship.
2711. Pen and Ink Sketch, showing how to obtain Practical Education.
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PART VII.

UNIVERSITIES, COLLEGES, SCHOOLS OF MEDICINE, &c.

UNIVERSITIES.

2712. **Albert University, Belleville.** Photograph.
 2713. **Victoria University, Cobourg.** ditto.
 2714. **Ditto** "Kosmos" (P. P. Journal, published by the Science Association of the College).
 2715. **Victoria University, "Acta Victoriana,"** a monthly Journal published by the Literary and Jackson Societies.
 2716. **Toronto University, Toronto.** Photograph.
 2717. **University Trinity College, Toronto.** Photograph.

Upper Canada Collège, Toronto.

Chart of Statistics (on Educational Trophy).

2718. Photograph of Building.
 2719. Baker, H. C. and Baker, G. T... Freehand Drawings. 8 specimens.
 2720. Freeman, J. W., Neilline, B. B., } ditto. 8 ditto.
 Robarts, F. L... .. }
 2721. Writing. 8 specimens.
 2722. Ditto 8 ditto.
 2723. Ditto 8 ditto.
 2724. Ditto 8 ditto.
 2725. **Trinity College, Port Hope.** Photograph.
 2726. **Knox Presbyterian College, Toronto.** Photograph.

Alma Ladies' College, St. Thomas.

(Wesleyan).

PUPILS' WORK.—FREEHAND, FROM FLAT COPY.

2727. Dixon, Bertie Apples.
 2728. Teeple, Jennie Cherry Branch.

LINEAR PERSPECTIVE.

2729. Broley, Clara Examination Papers.
 2730. Pettit, L. ditto.

GEOMETRY.

2731. Lucas, Madge Examination Papers.
 2732. Parker, Florence ditto.

SHADING FROM ANTIQUE.

2733.	Adams, Marcella	Diana	(Time Drawing)
2734.	Brook, Eva M.	ditto	ditto.
2735.	Ditto	Head of Diana	ditto.
2736.	Ditto	Venus de Milo	ditto.
2737.	Teeple, Jennie	ditto	ditto.
2738.	Wallace, E. D.	Bust of Clytie	ditto.
2739.	Ditto	Bust of Apollo	ditto.

OUTLINE FROM THE ROUND.

2740.	Teeple, Jennie	Venus de Milo (Time Drawing).
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Ontario Ladies' College, *Whitby.*

(Wesleyan.)

2741.	Photograph of Building.
2742.	Shields, A. Freehand Drawing.

ORIGINAL DESIGNS.

2743.	Campbell, B. A. Ceiling.	2747.	Wilson, M. Wall Paper.
2744.	Walker, E. ditto	2748.	Ditto ditto.
2745.	Wilson, M. ditto	2749.	Ditto Dessert Plate.
2746.	Ditto Dado.		

SHADING FROM THE FLAT.

2750.	Rundle, E.	Psyche.
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WATER COLOURS.

2751.	Campbell, B.	Still Life—Books, &c.
2752.	Ditto	ditto Cactus in pot.
2753.	Ditto	ditto Pears.
2754.	Ditto	ditto Tulips.
2755.	McGee, Winnie	ditto Log of Tree.
2756.	Ditto	ditto Teapot, &c.
2757.	Ditto	ditto Books, &c.
2758.	Ditto	ditto Horse Chesnuts.
2759.	Ditto	ditto Vase, &c.
2760.	Ditto	ditto Pears.
2761.	Ditto	Monochrome from the Round.
2762.	Walker, Ella	Still Life—Vase, &c.
2763.	Ditto	ditto Fan, &c.
2764.	Ditto	ditto Pears.
2765.	Ditto	ditto Cactus in Pot.
2766.	Ditto	ditto Teapot, &c.
2767.	Ditto	ditto Horse Chesnuts.
2768.	Ditto	Monochrome from the Round.

Ladies' College, *Brantford.*

2769.	Photograph of Building.
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PUPILS' WORK.—OIL PAINTINGS.

2770.	Barr, Annie	Othello and Desdemona.
2771.	Buck, Ada	Magnolias.
2772.	Cockshutt, N.	Moss Log.

PUPILS' WORK.—OIL PAINTINGS—*continued.*

773.	Devereux, Annie	Matterhorn.
2774.	Ditto	Madonna.
2775.	Ditto	Hollyhocks.
2776.	Jarvis, Minnie	St. Agnes' Eve.
2777.	Ditto	Nun and Artist.
2778.	McIntyre, Mrs.	The Sisters.
2779.	Ditto	Dog and Pheasant.
2780.	Ditto	October Sunshine.
2781.	Phair, Maggie	Tintern Abbey.
2782.	Ditto	Harvest Field.
2783.	Symington, M. A.	Head of Sailor.
2784.	Slater, A.	Grandmother's Muff.
2785.	Ditto	Asphodel.
2786.	Turner, Katie	Palais de Justice, Paris.
2787.	Watt, Bell	Fisher Girls.
2788.	Ditto	An October's Morning.
2789.	Ditto	A Woman of the People.

WATER COLOURS.

2790.	Barr, Annie	Aberfield Falls.
2791.	Ditto	Fig Merchants.
2792.	Devereux, Annie	French Mill.
2793.	Jones, Lily	Donkey's Head.

Ladies' College, *Hamilton.*

2794. Photograph of Building.

PUPILS' WORK.—OIL PAINTINGS.

2795.	Bowshaugh, Clara	Lace Maker.
2796.	Brethom, Lottie	Nun and Artist.
2797.	Ditto	Dieppe Cathedral.
2798.	Ditto	Othello and Desdemona.
2799.	Burns, Aleda	Border of the Forest.
2800.	Ditto	News from the Front.
2801.	Ditto	Willows.
2802.	Chipman, E.	Mountain Bridge.
2803.	Dyer, May	Water Lilies.
2804.	Ditto	Mont Blanc.
2805.	Grafton, Edith	A Summer's Study.
2806.	Harrison, Louise	Othello and Desdemona.
2807.	Ditto	Shadow River, Muskoka.
2808.	Smith, Emma	Golden Rod and Sumach.

Ladies' College, *Woodstock.*

ART DEPARTMENT.

PUPILS' WORK.—OIL PAINTINGS.

2809.	Burgess, E. B.	Head Study.
2810.	Farmer, Cara C.	Vestal Virgin.
2811.	Tree, A. Maude	Landscape.
2812.	Pavey, Rosella	Winter Scene.

WATER COLOURS.

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|-------------------------|----|----|----|--------------|
| 2813. Burgess, E. B. | .. | .. | .. | Marine View. |
| 2814. Revell, Charlotte | .. | .. | .. | Fruit. |
| 2815. Tree, A. Maude | .. | .. | .. | Still Life. |

PLAIN CRAYONS.

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|-------------------------|----|----|----|---------------------------|
| 2816. Burgess, E. B. | .. | .. | .. | Drawing from Cast. |
| 2817. Farmer, C. C. | .. | .. | .. | Portrait from Photograph. |
| 2818. Holtby, Carrie | .. | .. | .. | Figure Subject. |
| 2819. Horton, Ida | .. | .. | .. | ditto. |
| 2820. Revell, Charlotte | .. | .. | .. | Head Study. |
| 2821. Tree, A Maude | .. | .. | .. | Game. |
| 2822. Ditto | .. | .. | .. | Fruit Study. |
| 2823. Ditto | .. | .. | .. | Portrait from Photograph. |
| 2824. Ditto | .. | .. | .. | Drawing from Cast. |

PASTEL CRAYONS.

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|----------------------|----|----|----|-----------|
| 2825. Burgess, E. B. | .. | .. | .. | Fruit. |
| 2826. Horton, Ida. | .. | .. | .. | Portrait. |

Loretto Abbey, Toronto.

2827. Photograph of Building.

PUPILS' WORK—OIL PAINTINGS.

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|---------------------|----|----|----|-------------------|
| 2828. Curry, A. | .. | .. | .. | Water Lilies. |
| 2829. Greenwood, L. | .. | .. | .. | The Little Sweep. |
| 2830. Kerr, M. | .. | .. | .. | Hunting Scene. |
| 2831. Wilson, M. E. | .. | .. | .. | Floral Design. |
| 2832. McElderry, J. | .. | .. | .. | Landscape. |

OIL ON VELVET.

- | | | | | |
|-------------------|----|----|----|-------------|
| 2833. Trounce, A. | .. | .. | .. | Sheep Dog. |
| 2834. Ditto | .. | .. | .. | Rabbit. |
| 2835. Ditto | .. | .. | .. | Fox's Head. |

WATER COLOURS.

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|---------------------|----|----|----|------------|
| 2836. Wilson, M. E. | .. | .. | .. | Landscape. |
| 2837. Ditto | .. | .. | .. | ditto. |

CRAYON DRAWINGS.

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|---------------------|----|----|----|----------------|
| 2838. Wilson, M. E. | .. | .. | .. | Lion's Head. |
| 2839. Ditto | .. | .. | .. | Donkey's Head. |

EMBROIDERY.

- | | | | | |
|----------------|----|----|----|--------------|
| 2840. Hess, L. | .. | .. | .. | Table Drape. |
|----------------|----|----|----|--------------|

WAX WORK.

2841. Group of Wax Flowers.

Loretto Convent, *Hamilton*.**PUPILS' WORK.--OIL PAINTING ON CHINA.**

2842. Loretto Convent The Mother and Child.

WATER COLOURS.

2843. Loretto Convent Two Doves (on silk panel).
 2844. Moodie, Jennie Spray of Pansies (on silk).
 2845. Ditto Scene (on panel).

MODELLING IN CLAY.

2846. Loretto Convent Spray of Lilies, Tea Roses, &c.

SATIN STITCH AND APPLIQUE WORK.

2847. Mills, Ida Table Scarf on Crimson Felt.
 2848. Kavanagh, Maggie Panel of Wild Roses.

HONITON LACE.

2849. Hiltz, Clara Handkerchief and two Collars.
 2850. Helmuth Ladies' College, *London*. Photograph.
 2851. Sacred Heart Academy, *London*. Lithograph.
 2852. Loretto Convent, *Niagara Falls*. Photograph.
 2853. St. Joseph's Convent, *Toronto*. ditto.
 2854. Convent de Notre Dame, *Peterborough*. ditto.

SCHOOLS OF MEDICINE, &c.

2855. Toronto School of Medicine, *Toronto*. Photograph.
 2856. Ditto ditto Chart of Statistics.
 2857. Royal College of Physicians and Surgeons, *Kingston*. Photograph.
 2858. Ontario Pharmaceutical College, *Toronto*.

OTHER INSTITUTIONS.

2859. Osgoode Hall, *Toronto*. Photograph.
 2860. Osgoode Hall Library, *Toronto*. ditto.
 2861. De La Salle Institute, *Toronto*. ditto.
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